



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Prayaga et al.
SERIAL NUMBER: 09/679,740 EXAMINER: Not Yet Assigned
FILING DATE: October 5, 2000 ART UNIT: 1645
FOR: Endozepine-Like Polypeptides and Polynucleotides Encoding Same

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**RESPONSE TO NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT
APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID
SEQUENCE DISCLOSURES**

In response to the notice to comply with requirements for patent applications containing nucleotide sequence and/or amino acid sequence disclosures, mailed February 14, 2002, in the above-identified application, Applicants submit a substitute paper copy, and a computer readable form of the Sequence Listing. Also enclosed are a Statement in Support of Computer Readable Form Submission, a Supplemental Preliminary Amendment and a copy of the Notice to Comply. Applicants also enclose a copy of a Petition Under 37 C.F.R. § 1.181 to Withdraw Holding of Abandonment that is being filed simultaneously with this Response.

Please charge any fees that may be due, or credit any overpayment to Deposit Account No. 50-0311, Reference No. 15966-575B.

Respectfully submitted,


Ivor R. Elrifi, Reg. No. 39,529
Attorney for Applicants
c/o MINTZ, LEVIN
Tel: (617) 542-6000
Fax: (617) 542-2241
Customer No.: 30623

Date of Deposit: July 22, 2004



SEQUENCE LISTING

<110> Prayaga, Sudhirdas K
Shimkets, Richard A
Majumder, Kumud
Eisen, Andrew
Vernet, Corine
Spaderna, Steven K

<120> ENDOZEPINE-LIKE POLYPEPTIDES AND POLYNUCLEOTIDES
ENCODING SAME

<130> 15966-575B

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<141> 2000-10-05

<150> 60/157,786
<151> 1999-10-05

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cccgtgagcg atcaggagaa gctgctggtc tacggcttgt acaaacagggc cacccaggcc 180
gactgcgaca tccccggccc tccggcctca gacgtgagag ccagggccaa gtgggaggct 240
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35 40 45

Leu Val Tyr Gly Leu Tyr Lys Gln Ala Thr Gln Gly Asp Cys Asp Ile
50 55 60 80

Pro Gly Pro Pro Ala Ser Asp Val Arg Ala Arg Ala Lys Trp Glu Ala
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Trp Ser Ala Asn Lys Gly Ala Ser Lys Met Asp Ala Met Arg Gly Tyr
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aatatttgagt gttcagaaat gctagaatta aaaggcaagg ccaaatagggaa agcacacaaac 240
ccccaaaaag gattgtcaga ggaagatatg atgcgtgcct ttatttctaa agccgaagag 300

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35 40 45

Leu Glu Leu Lys Gly Lys Ala Lys Trp Glu Ala Gln Asn Pro Gln Lys
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His Leu Ser Trp Glu Glu Lys Lys Lys Lys Arg Cys Ala Gly Ile
35 40 45

Lys His Phe Lys Thr Lys Pro Ala Asp Asp Glu Met Arg Phe Leu Tyr
50 55 60

Gly His Tyr Lys Arg Ala Thr Val Gly Asn Ile Lys Thr Glu Arg Pro
65 70 75 80

Gly Met Val Asp Phe Lys Gly Lys Ala Lys Trp Asp Pro Trp Asn Leu
85 90 95

Val Lys Gly Ala Ala Arg Glu Asp Pro Met Lys Ala Lys Ala Tyr Val
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20 25 30

Glu Leu Lys Glu Leu Tyr Gly Leu Tyr Lys Gln Ala Ile Val Gly Asp
35 40 45

Ile Asn Ile Ala Cys Pro Gly Met Leu Asp Leu Lys Gly Lys Ala Lys
50 55 60

Trp Glu Ala Trp Asn Leu Lys Lys Gly Leu Ser Thr Glu Asp Ala Thr
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<213> Homo sapiens

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attggagaca ttaatattga gtatctggta atgctggact ttaagggcaa ggccaaatgc 180  
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20 25 30

Leu Tyr Lys Gln Ala Ile Ile Gly Asp Ile Asn Ile Glu Tyr Leu Gly
35 40 45

Met Leu Asp Phe Lys Gly Lys Ala Lys Cys Ala Ala Trp Thr Leu Gln
50 55 60

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Lys Glu Pro Ile Glu Lys
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Tyr Gly Leu Tyr Lys Gln Ala Thr Gln Gly Asp Cys Asp Ile Pro Gly
   35          40          45

Pro Pro Ala Ser Asp Val Arg Ala Arg Ala Lys Trp Glu Ala Trp Ser
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ccgttagacca gcagcttctc ctgatcgctc acgggaccct tcagctgctt gagggcccg 180
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Leu Lys Gly Lys
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<213> Homo sapiens

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Phe Lys Gly Lys
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Phe Lys

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Leu Lys Gly Lys
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<213> Homo sapiens

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Leu Lys

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Phe Lys Gly Lys
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 <213> Homo sapiens

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 35 40 45

Val Lys Val Ile Gln Ser Leu Pro Lys Asn Gly Ser Phe Gln Pro Thr
 50 55 60

Asn Glu Met Met Leu Lys Phe Tyr Ser Phe Tyr Lys Gln Ala Thr Glu
 65 70 75 80

Gly Pro Cys Lys Leu Ser Arg Pro Gly Phe Trp Asp Pro Ile Gly Arg
 85 90 95

Tyr Lys Trp Asp Ala Trp Ser Ser Leu Gly Asp Met Thr Lys Glu Glu
 100 105 110

Ala Met Ile Ala Tyr Val Glu Glu Met Lys Lys Ile Ile Glu Thr Met
 115 120 125

Pro Met Thr Glu Lys Val Glu Glu Leu Leu Arg Val Ile Gly Pro Phe
 130 135 140

Tyr Glu Ile Val Glu Asp Lys Lys Ser Gly Arg Ser Ser Asp Ile Thr
 145 150 155 160

Ser Val Arg Leu Glu Lys Ile Ser Lys Cys Leu Glu Asp Leu Gly Asn
 165 170 175

Val Leu Thr Ser Thr Pro Asn Ala Lys Thr Val Asn Gly Lys Ala Glu
 180 185 190

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 195 200 205

Val Lys Gly Ala Glu His Ser Asp Asn Asp Lys Lys Met Met Lys Lys
210 .215 220

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225 230 235 240

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260 265 270

Leu Gly Gln Thr Gly Lys Ser Ala Val Cys Ile His Gln Gly Ile Asn
275 280 285

Asp Asp His Val Glu Asp Val Thr Gly Ile Gln His Leu Thr Ser Asp
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Ser Asp Ser Glu Val Tyr Cys Asp Ser Met Glu Gln Phe Gly Gln Glu
305 310 315 320

Glu Ser Leu Asp Ser Phe Thr Ser Asn Asn Gly Pro Phe Gln Tyr Tyr
325 330 335

Leu Gly Gly His Ser Ser Gln Pro Met Glu Asn Ser Gly Phe Arg Glu
340 345 350

Asp Ile Gln Val Pro Pro Gly Asn Gly Asn Ile Gly Asn Met Gln Val
355 360 365

Val Ala Val Glu Gly Lys Gly Glu Val Lys His Gly Gly Glu Asp Gly
370 375 380

Arg Asn Asn Ser Gly Ala Pro His Arg Glu Lys Arg Gly Gly Glu Thr
385 390 395 400

Asp Glu Phe Ser Asn Val Arg Arg Gly Arg Gly His Arg Met Gln His
405 410 415

Leu Ser Glu Gly Thr Lys Gly Arg Gln Val Gly Ser Gly Asp Gly
420 425 430

Glu Arg Trp Gly Ser Asp Arg Gly Ser Arg Gly Ser Leu Asn Glu Gln
435 440 445

Ile Ala Leu Val Leu Met Arg Leu Gln Glu Asp Met Gln Asn Val Leu
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Gln Arg Leu Gln Lys Leu Glu Thr Leu Thr Ala Ala Lys Ser Ser Thr
465 470 475 480

Ser Thr Leu Gln Thr Ala Pro Gln Pro Thr Ser Ser Gln Arg Pro Ser
485 490 495

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Gln Ala Thr Val His Asp Leu Asn Thr Glu Trp Pro Arg Met Leu Asp
35 40 45

Leu Lys Gly Lys Ala Lys Gln Asp Ala Trp Asn Glu Leu Lys Asp Thr
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Ala Lys Glu Asp Ala Val Lys Ala Asp Ile Asn Lys Val Glu Glu Arg
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Asn Lys Lys Tyr Arg Ile
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Leu Lys Gly Lys
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20 25 30

Leu Lys Thr Lys Pro Ser Asp Glu Glu Met Leu Phe Ile Tyr Gly His
35 40 45

Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met
50 55 60

Leu Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys
65 70 75 80

Gly Thr Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys Val Glu
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Glu Leu Lys Lys Tyr Gly Ile
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Phe Thr Gly Lys
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 20 25 30

Leu Tyr Lys Gln Ala Thr Glu Gly Pro Cys Asn Met Pro Lys Pro Gly
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Val Phe Asp Leu Ile Asn Lys Ala Lys Trp Asp Ala Trp Asn Ala Leu
 50 55 60

Gly Ser Leu Pro Lys Glu Ala Ala Arg Gln Asn Tyr Val Asp Leu Val

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85	90	95	
Thr Asp Arg Lys Ser Thr Gly Phe Glu Thr Leu Val Val Thr Ser Glu			
100	105	110	
Asp Gly Ile Thr Lys Ile Met Phe Asn Arg Pro Lys Lys Lys Asn Ala			
115	120	125	
Ile Asn Thr Glu Met Tyr His Glu Ile Met Arg Ala Leu Lys Ala Ala			
130	135	140	
Ser Lys Asp Asp Ser Ile Ile Thr Val Leu Thr Gly Asn Gly Asp Tyr			
145	150	155	160
Tyr Ser Ser Gly Asn Asp Leu Thr Asn Phe Thr Asp Ile Pro Pro Gly			
165	170	175	
Gly Val Glu Glu Lys Ala Lys Asn Asn Ala Val Leu Leu Arg Glu Phe			
180	185	190	
Val Gly Cys Phe Ile Asp Phe Pro Lys Pro Leu Ile Ala Val Val Asn			
195	200	205	
Gly Pro Ala Val Gly Ile Ser Val Thr Leu Leu Gly Leu Phe Asp Ala			
210	215	220	
Val Tyr Ala Ser Asp Arg Ala Thr Phe His Thr Pro Phe Ser His Leu			
225	230	235	240
Gly Gln Ser Pro Glu Gly Cys Ser Ser Tyr Thr Phe Pro Lys Ile Met			
245	250	255	
Ser Pro Ala Lys Ala Thr Glu Met Leu Ile Phe Gly Lys Lys Leu Thr			
260	265	270	
Ala Gly Glu Ala Cys Ala Gln Gly Leu Val Thr Glu Val Phe Pro Asp			
275	280	285	
Ser Thr Phe Gln Lys Glu Val Trp Thr Arg Leu Lys Ala Phe Ala Lys			
290	295	300	
Leu Pro Pro Asn Ala Leu Arg Ile Ser Lys Glu Val Ile Arg Lys Arg			
305	310	315	320
Glu Arg Glu Lys Leu His Ala Val Asn Ala Glu Glu Cys Asn Val Leu			
325	330	335	
Gln Gly Arg Trp Leu Ser Asp Glu Cys Thr Asn Ala Val Val Asn Phe			
340	345	350	
Leu Ser Arg Lys Ser Lys Leu			
355			

<210> 33
<211> 20
<212> PRT
<213> Homo sapiens

<400> 33
Gln Ala Thr Glu Gly Pro Cys Asn Met Pro Lys Pro Gly Val Phe Asp
1 5 10 15

Leu Ile Asn Lys
20

<210> 34
<211> 1574
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1574)
<223> wherein any n is an a, c, g or t

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tttcagcgaa acgattaaaaa gacgcccccta cagctgacgg cacttctct cctccggcag 120
ganaggacgt ccagcgtacg tcngcccgcg cttcccgcc ggcgcagagc aggcctcaca 180
gaatcgcacg ccgctggcac gcacgcccgc cccgccccac ggcgcagcgc cagcgcgccc 240
cgcgtcgcac gcaccccgcc ctcaactgccc ctcgactcct gttccgttgg agggccctga 300
ggcgagcctg agcgcgcgtgt tggccggagg aagccggaga gaccgggtcg actgggcaga 360
gcggcagagg gtcgaggagg ctgtctgca cggccaggga gtagaagtgg gcagggagca 420
gggtcacgtg agggagcgcg cccgcactga gcttgggtcc gactggagct caggctcg 480
acccagactg gtggggccagg cttccaagcc ggccttacac ccaatccaag gaggacagac 540
cggacacaga gggacggagc gagcaaggag acatggcttc atattctgt cccgcgggg 600
ccatcacccgg cgacagcggt ggagagctga gctcaggaga cgactccggg gaggtggagt 660
tccccatag ccctgagatc gaggagacca gttgcctggc cgagctgtt gagaaggctg 720
ccgcgcacct gcaaggcctg attcaggtgg ccagcaggga gcagcttgc tacctgtatg 780
ccaggtacaa acaggtcaaa gttggaaatt gtaatactcc taaaaccac 1574
ttgaaggaaa gcaaaaatgg gaagcttgg aagcacttgg tgattcaac cccagccaag 900
caatgcagga atatatcgca gtagttaaaa aactagatcc agtttggaaat cctcagatac 960
cagagaagaa agggaaaagaa gcaaatacag gttttgtgg gccagttatt agttctctat 1020
atcatgaaga aaccatcagg gaagaagaca aaaatatatt tgattactgc agggaaaaca 1080
acattgacca tataaccaaa gccatcaaat cgaaaaatgt ggatgtgaat gtgaaaagatg 1140
aagagggtag ggctctactt cactgggcct gtgatcgagg acataaggaa ctgtcacag 1200
tgttgctgca acatagagct gacattaact gtcaggacaa tgaaggccaa acagctctac 1260
attatgcctc tgccctgtgag ttctggata ttgttagagct gctgctccag tctggtgctg 1320
accccaactct ccgagaccag gatggctgcc tgccagagga ggtgacaggc tgcaaaaacag 1380
tttcttgggt gctgcagcgg cacacaactg gcaaggctta ataaaaagac tggaaaactg 1440
cagtcgtaa tagcataagg cttccattat gaaagaaaac tacaaaaata atacttcttt 1500
tccacccgtc tttggtatgt attggctaatt aaaatcagtt ctgtggaaact gggaaaaaaaa 1560
aaaaaaaaaaa aaaa

<210> 35
<211> 282
<212> PRT
<213> Homo sapiens

<400> 35
 Met Ala Ser Ser Phe Leu Pro Ala Gly Ala Ile Thr Gly Asp Ser Gly
 1 5 10 15

 Gly Glu Leu Ser Ser Gly Asp Asp Ser Gly Glu Val Glu Phe Pro His
 20 25 30

 Ser Pro Glu Ile Glu Glu Thr Ser Cys Leu Ala Glu Leu Phe Glu Lys
 35 40 45

 Ala Ala Ala His Leu Gln Gly Leu Ile Gln Val Ala Ser Arg Glu Gln
 50 55 60

 Leu Leu Tyr Leu Tyr Ala Arg Tyr Lys Gln Val Lys Val Gly Asn Cys
 65 70 75 80

 Asn Thr Pro Lys Pro Ser Phe Phe Asp Phe Glu Gly Lys Gln Lys Trp
 85 90 95

 Glu Ala Trp Lys Ala Leu Gly Asp Ser Ser Pro Ser Gln Ala Met Gln
 100 105 110

 Glu Tyr Ile Ala Val Val Lys Lys Leu Asp Pro Gly Trp Asn Pro Gln
 115 120 125

 Ile Pro Glu Lys Lys Gly Lys Glu Ala Asn Thr Gly Phe Gly Gly Pro
 130 135 140

 Val Ile Ser Ser Leu Tyr His Glu Glu Thr Ile Arg Glu Glu Asp Lys
 145 150 155 160

 Asn Ile Phe Asp Tyr Cys Arg Glu Asn Asn Ile Asp His Ile Thr Lys
 165 170 175

 Ala Ile Lys Ser Lys Asn Val Asp Val Asn Val Lys Asp Glu Glu Gly
 180 185 190

 Arg Ala Leu Leu His Trp Ala Cys Asp Arg Gly His Lys Glu Leu Val
 195 200 205

 Thr Val Leu Leu Gln His Arg Ala Asp Ile Asn Cys Gln Asp Asn Glu
 210 215 220

 Gly Gln Thr Ala Leu His Tyr Ala Ser Ala Cys Glu Phe Leu Asp Ile
 225 230 235 240

 Val Glu Leu Leu Gln Ser Gly Ala Asp Pro Thr Leu Arg Asp Gln
 245 250 255

 Asp Gly Cys Leu Pro Glu Glu Val Thr Gly Cys Lys Thr Val Ser Leu
 260 265 270

 Val Leu Gln Arg His Thr Thr Gly Lys Ala
 275 280

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<210> 36
<211> 20
<212> PRT
<213> Homo sapiens

<400> 36
Gln Val Lys Val Gly Asn Cys Asn Thr Pro Lys Pro Ser Phe Phe Asp
1 5 10 15

Phe Glu Gly Lys
20

<210> 37
<211> 20
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (4)
<223> wherein Xaa is Val, Ile or Glu

<220>
<221> VARIANT
<222> (6)
<223> wherein Xaa is Asp, Asn or Pro

<220>
<221> VARIANT
<222> (7)
<223> wherein Xaa is Ile, Leu or Cys

<220>
<221> VARIANT
<222> (8)
<223> wherein Xaa is Asn or Lys

<220>
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<222> (9)
<223> wherein Xaa is Ile, Leu, Met or Thr

<220>
<221> VARIANT
<222> (10)
<223> wherein Xaa is Glu, Ser or Pro

<220>
<221> VARIANT
<222> (11)
<223> wherein Xaa is Lys or Arg

<220>
<221> VARIANT
<222> (17)
<223> wherein Xaa is Leu or Phe

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<220>
<221> VARIANT
<222> (20)
<223> wherein Xaa is Lys or Arg

<400> 37
Gln Ala Thr Xaa Gly Xaa Xaa Xaa Xaa Xaa Pro Gly Met Leu Asp
    1           5           10           15

Xaa Lys Gly Xaa
    20

<210> 38
<211> 20
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (4)
<223> wherein Xaa is Glu, Val or Ile

<220>
<221> VARIANT
<222> (6)
<223> wherein Xaa is Asp or Pro

<220>
<221> VARIANT
<222> (7)
<223> wherein Xaa is Cys, Ile or Leu

<220>
<221> VARIANT
<222> (8)
<223> wherein Xaa is Asn or Lys

<220>
<221> VARIANT
<222> (9)
<223> wherein Xaa is Ile, Leu, Met or Thr

<220>
<221> VARIANT
<222> (10)
<223> wherein Xaa is Ser or Pro

<220>
<221> VARIANT
<222> (11)
<223> wherein Xaa is Tyr, Trp, Lys or Arg

<220>
<221> VARIANT
<222> (13)

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<223> wherein Xaa is Gly or Arg

<220>
<221> VARIANT
<222> (14)
<223> wherein Xaa is Val or Phe

<220>
<221> VARIANT
<222> (15)
<223> wherein Xaa is Phe or Trp

<220>
<221> VARIANT
<222> (17)
<223> wherein Xaa is Phe or Pro

<220>
<221> VARIANT
<222> (18)
<223> wherein Xaa is Lys or Ile

<220>
<221> VARIANT
<222> (20)
<223> wherein Xaa is Lys or Arg

<400> 38
Gln Ala Thr Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Xaa Xaa Asp
    1           5           10          15

Xaa Xaa Gly Xaa
    20

<210> 39
<211> 20
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (6)
<223> wherein Xaa is Asp or Pro

<220>
<221> VARIANT
<222> (8)
<223> wherein Xaa is Lys, Arg or Asn

<220>
<221> VARIANT
<222> (9)
<223> wherein Xaa is Ala, Ile, Thr, Val, Phe, Leu or Met

<220>
<221> VARIANT

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<222> (10)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (11)
<223> wherein Xaa is Lys or Arg

<220>
<221> VARIANT
<222> (14)
<223> wherein Xaa is Ala, Ile, Thr, Val, Phe, Leu or Met

<220>
<221> VARIANT
<222> (15)
<223> wherein Xaa is Trp, Ala, Ile, Thr, Val, Phe, Leu
      or Met

<220>
<221> VARIANT
<222> (17)
<223> wherein Xaa is Pro, Ala, Ile, Thr, Val, Phe, Leu
      or Met

<220>
<221> VARIANT
<222> (19)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (20)
<223> wherein Xaa is Lys or Arg

<400> 39
Gln Ala Thr Glu Gly Xaa Cys Xaa Xaa Xaa Xaa Pro Gly Xaa Xaa Asp
   1           5           10          15

Xaa Ile Xaa Xaa
   20

<210> 40
<211> 20
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (3)
<223> wherein Xaa is Thr, Val or Lys

<220>
<221> VARIANT
<222> (4)
<223> wherein Xaa is Val or Ile

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<220>
<221> VARIANT
<222> (9)
<223> wherein Xaa is Thr or Ile

<220>
<221> VARIANT
<222> (11)
<223> wherein Xaa is Cys, Arg or Lys

<220>
<221> VARIANT
<222> (13)
<223> wherein Xaa is Gly, Glu or Ser

<220>
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<222> (16)
<223> wherein Xaa is Asp or Glu

<220>
<221> VARIANT
<222> (18)
<223> wherein Xaa is Thr, Lys or Glu

<400> 40
Gln Ala Xaa Xaa Gly Asn Ile Asn Xaa Glu Xaa Pro Xaa Met Leu Xaa
    1           5           10          15

Phe Xaa Gly Lys
    20

<210> 41
<211> 20
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (2)
<223> wherein Xaa is Ala, Ile, Thr, Val, Phe, Leu or Met

<220>
<221> VARIANT
<222> (3)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (4)
<223> wherein Xaa is Ala, Ile, Thr, Val, Phe, Leu or Met

<220>
<221> VARIANT
<222> (6)

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<223> wherein Xaa is Asp, Glu or Asn

<220>
<221> VARIANT
<222> (7)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (9)
<223> wherein Xaa is any amino acid

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<223> wherein Xaa is any amino acid

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<223> wherein Xaa is any amino acid

<220>
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<222> (13)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (14)
<223> wherein Xaa is Ala, Ile, Thr, Val, Phe, Leu or Met

<220>
<221> VARIANT
<222> (15)
<223> wherein Xaa is Asp or Glu

<220>
<221> VARIANT
<222> (16)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (17)
<223> wherein Xaa is any amino acid

<400> 41
Gln Xaa Xaa Xaa Gly Xaa Xaa Asn Xaa Glu Xaa Xaa Xaa Xaa Xaa Xaa
    1           5           10          15

Xaa Xaa Gly Lys
    20

<210> 42
<211> 20

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<212> PRT
<213> Homo sapiens

<220>
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<222> (6)
<223> wherein Xaa is Asp, Asn or Pro

<220>
<221> VARIANT
<222> (7)
<223> wherein Xaa is Ile or Cys

<220>
<221> VARIANT
<222> (9)
<223> wherein Xaa is Thr, Ile, Met or Leu

<220>
<221> VARIANT
<222> (10)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (11)
<223> wherein Xaa is Arg or Lys

<220>
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<220>
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<223> wherein Xaa is any amino acid

<220>
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<223> wherein Xaa is Phe or Leu

<220>
<221> VARIANT
<222> (18)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (20)
<223> wherein Xaa is Lys or Arg

<400> 42
Gln Ala Thr Val Gly Xaa Xaa Asn Xaa Xaa Xaa Pro Gly Xaa Xaa Asp
    1           5           10          15

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Xaa Xaa Gly Xaa
20

<210> 43
<211> 20
<212> PRT
<213> Homo sapiens

<220>
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<222> (7)
<223> wherein Xaa is Ile or Cys

<220>
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<222> (10)
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<220>
<221> VARIANT
<222> (11)
<223> wherein Xaa is any amino acid

<220>
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<223> wherein Xaa is Gly or Pro

<220>
<221> VARIANT
<222> (14)
<223> wherein Xaa is Met or Ala

<220>
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<222> (15)
<223> wherein Xaa is Leu or Ser

<220>
<221> VARIANT
<222> (17)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (18)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (19)
<223> wherein Xaa is Gly or Ala

<220>
<221> VARIANT
<222> (20)

<223> wherein Xaa is Lys or Arg

<400> 43

Gln Ala Thr Val Gly Asp Xaa Asn Ile Xaa Xaa Pro Xaa Xaa Xaa Asp
1 5 10 15

Xaa Xaa Xaa Xaa

20

<210> 44

<211> 20

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (3)

<223> wherein Xaa is any amino acid

<220>

<221> VARIANT

<222> (4)

<223> wherein Xaa is any amino acid

<220>

<221> VARIANT

<222> (6)

<223> wherein Xaa is Asn, Asp or Pro

<220>

<221> VARIANT

<222> (7)

<223> wherein Xaa is Ile or Cys

<220>

<221> VARIANT

<222> (9)

<223> wherein Xaa is Thr, Ile or Met

<220>

<221> VARIANT

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<223> wherein Xaa is Glu or Pro

<220>

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<223> wherein Xaa is any amino acid

<220>

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<222> (12)

<223> wherein Xaa is Pro, Leu or Ser

<220>

<221> VARIANT

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<222> (13)
<223> wherein Xaa is Gly, Glu or Ser

<220>
<221> VARIANT
<222> (14)
<223> wherein Xaa is Met, Val or Phe

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<221> VARIANT
<222> (15)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (17)
<223> wherein Xaa is Phe or Leu

<220>
<221> VARIANT
<222> (18)
<223> wherein Xaa is Lys, Ile or Glu

<400> 44
Gln Ala Xaa Xaa Gly Xaa Xaa Asn Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp
    1           5           10          15

Xaa Xaa Gly Lys
    20

<210> 45
<211> 20
<212> PRT
<213> Homo sapiens

<220>
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<222> (2)
<223> wherein Xaa is Ala, Ile, Thr, Val, Phe, Leu or Met

<220>
<221> VARIANT
<222> (3)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (6)
<223> wherein Xaa is Asp, Glu or Asn

<220>
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<222> (7)
<223> wherein Xaa is any amino acid

<220>

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<221> VARIANT
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<220>
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<223> wherein Xaa is Arg or Lys

<220>
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<222> (13)
<223> wherein Xaa is any amino acid

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<222> (14)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (15)
<223> wherein Xaa is Ala, Ile, Thr, Val, Phe, Leu or Met

<220>
<221> VARIANT
<222> (18)
<223> wherein Xaa is any amino acid

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<400> 45
Gln Xaa Xaa Val Gly Xaa Xaa Asn Thr Xaa Xaa Pro Xaa Xaa Xaa Asp
    1           5           10          15

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Phe Xaa Gly Lys
    20

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<210> 46
<211> 687
<212> DNA
<213> Homo sapiens

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<400> 46
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ccgcccacag cctccgcgcg gcacgcgcag tcctcacgaa cgagcgcgcc aagcgacag 120
cgccgccttc cggcagagcc ctccccaccag ccctcagcac cagggaccgc ctccaccacc 180
ccatgtgcca agtggagttc gagctgcgcg gccctcaagc agctgaaggg tcccgtgagc 240
gatcaggaga agctgcttgtt ctacggcttg tacaaacagg ccacccaggg cgactgcgac 300
atccccggcc ctccggcctc agacgtgaga gccagggcca agtgggaggc ttggagcgcg 360
aacaaagggg cgtccaaagat ggacgcatg aggggctacg cggccaaagt ggaggagctg 420
acgaagaagg aagtgggggg cgtggagcgc gaacaaaggg gcgtgcaaga tggacgcct 480
gaggggctac gcggccaaag tggaggagct gacgaagaag gaagggcgtc caagatggac 540
gccatgaggg gctacgcgc caaagtggag gagctgacga agaaggaagt gggggcgtg 600
gagcgcgaac aaagggcgt ccaagatgga cgccatgagg ggctacgcgg ccagagttag 660
gagatgagga agaaggaggc tggctga                                687

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<210> 47
 <211> 228
 <212> PRT
 <213> Homo sapiens

<400> 47
 Met Gly Asp Ala Gly Ala Thr Ala Ala Ala Leu Arg Pro Ala His Asn
 1 5 10 15

Leu Arg Pro Ala Pro Pro Thr Ala Ser Ala Ala His Ala Gln Ser Ser
 20 25 30

Arg Thr Ser Ala Pro Ser Ala Gln Arg Arg Leu Pro Ala Glu Pro Ser
 35 40 45

His Gln Pro Ser Ala Pro Gly Thr Ala Ser Thr Thr Pro Cys Ala Lys
 50 55 60

Trp Ser Ser Ser Cys Ala Ala Leu Lys Gln Leu Lys Gly Pro Val Ser
 65 70 75 80

Asp Gln Glu Lys Leu Leu Val Tyr Gly Leu Tyr Lys Gln Ala Thr Gln
 85 90 95

Gly Asp Cys Asp Ile Pro Gly Pro Pro Ala Ser Asp Val Arg Ala Arg
 100 105 110

Ala Lys Trp Glu Ala Trp Ser Ala Asn Lys Gly Ala Ser Lys Met Asp
 115 120 125

Ala Met Arg Gly Tyr Ala Ala Lys Val Glu Glu Leu Thr Lys Lys Glu
 130 135 140

Val Gly Gly Val Glu Arg Glu Gln Arg Gly Val Gln Asp Gly Arg His
 145 150 155 160

Glu Gly Leu Arg Gly Gln Ser Gly Gly Ala Asp Glu Glu Gly Arg Ala
 165 170 175

Ser Lys Met Asp Ala Met Arg Gly Tyr Ala Ala Lys Val Glu Glu Leu
 180 185 190

Thr Lys Lys Glu Val Gly Gly Val Glu Arg Glu Gln Arg Gly Val Gln
 195 200 205

Asp Gly Arg His Glu Gly Leu Arg Gly Gln Ser Glu Glu Met Arg Lys
 210 215 220

Lys Glu Ala Gly
 225

<210> 48
 <211> 576
 <212> DNA
 <213> Homo sapiens

<400> 48
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ccgcccacag cctccgcgc gcacgccagt cctcacgaac gagcgccca agcaagccgc 120
gcctccgc agagccctcc caccagccct cagcttctag caccagggac cgcccccacc 180
acccatgtg ccaagtggag ttcgagctgc gcggcctca agcagctgaa gggtcccgtg 240
agcgatcagg agaagctgct ggtctacggc ttgtacaaac aggccaccca gggcactgc 300
gacatccccg gccctccggc ctcagacgtg agagccaggg ccaagtggga ggcttgagc 360
gcaaaaaaag gggcgtccaa gatggacgcc atgagggct acgcggccaa agtggaggag 420
ctgacgaaga aggaagtggg gggcgtggag cgcgaacaaa ggggcgtgca agatggacgc 480
catgaggggc tacgcggcca aagtggagga gctgacgaag aaggaagtgg gggcgtgga 540
gcgcgaacaa agggcgtcc aagatggacg ccatga 576

<210> 49
<211> 191
<212> PRT
<213> Homo sapiens

<400> 49
Met Gly Asp Ala Gly Ala Thr Ala Ala Ala Leu Arg Pro Ala His Asn
1 5 10 15
Leu Arg Pro Ala Pro Pro Thr Ala Ser Ala Ala His Ala Ser Pro His
20 25 30
Glu Arg Ala Arg Gln Ala Ser Arg Ala Phe Arg Gln Ser Pro Pro Thr
35 40 45
Ser Pro Gln Leu Leu Ala Pro Gly Thr Ala Ser Thr Thr Pro Cys Ala
50 55 60
Lys Trp Ser Ser Ser Cys Ala Ala Leu Lys Gln Leu Lys Gly Pro Val
65 70 75 80
Ser Asp Gln Glu Lys Leu Leu Val Tyr Gly Leu Tyr Lys Gln Ala Thr
85 90 95
Gln Gly Asp Cys Asp Ile Pro Gly Pro Pro Ala Ser Asp Val Arg Ala
100 105 110
Arg Ala Lys Trp Glu Ala Trp Ser Ala Lys Lys Gly Ala Ser Lys Met
115 120 125
Asp Ala Met Arg Gly Tyr Ala Ala Lys Val Glu Glu Leu Thr Lys Lys
130 135 140
Glu Val Gly Gly Val Glu Arg Glu Gln Arg Gly Val Gln Asp Gly Arg
145 150 155 160
His Glu Gly Leu Arg Gly Gln Ser Gly Gly Ala Asp Glu Glu Gly Ser
165 170 175
Gly Gly Arg Gly Ala Arg Thr Lys Gly Arg Pro Arg Trp Thr Pro
180 185 190

<210> 50

<211> 294
<212> DNA
<213> Homo sapiens

<400> 50
gctgcggcca ccatgtccct gcaggctgat tttgacatgg tcacagaaga tgtgaggaag 60
ctgaaaacaa gaccagatga tgaagaactg aaagaactt atgggcttta caaacaagct 120
gtaattggaa acattaatat tgagtgttca gaaatgctag aattaaaagg caaggccaaa 180
tgggaaggcac agaaccccc 333 aaaaggattt tcagaggaag atatgatgcg tgccttatt 240
tctaaagccg aagagctgat agaaaaatata ggaatttata ataaagcata tgat 294

<210> 51
<211> 293
<212> DNA
<213> Homo sapiens

<400> 51
gctgaatcaa ccatgtcacc ccaggcagat tttgacaaag cagcagggga tgtaaagaaa 60
ttgaaaacaa aaccaactga cgatgaactg aaggaactgt acggactcta caagcagtcc 120
actgttgggg acataaaatata agagtgtcct ggcatgctag atctgaaggg caaggccaaag 180
tgggacgcat ggaacctaaa gaaaggcttgc tctaaggaag atgcgatgag cgcttatgtt 240
tctaaagccc atgagctgat agaaaaatata ggcctgtaac aaggtcgcat gat 293

<210> 52
<211> 85
<212> PRT
<213> Homo sapiens

<400> 52
Gln Ala Asp Phe Asp Met Val Thr Glu Asp Val Arg Lys Leu Lys Thr
1 5 10 15

Arg Pro Asp Asp Glu Glu Leu Lys Glu Leu Tyr Gly Leu Tyr Lys Gln
20 25 30

Ala Val Ile Gly Asn Ile Asn Ile Glu Cys Ser Glu Met Leu Glu Leu
35 40 45

Lys Gly Lys Ala Lys Trp Glu Ala Gln Asn Pro Gln Lys Gly Leu Ser
50 55 60

Glu Glu Asp Met Met Arg Ala Phe Ile Ser Lys Ala Glu Glu Leu Ile
65 70 75 80

Glu Lys Tyr Gly Ile
85

<210> 53
<211> 85
<212> PRT
<213> Homo sapiens

<400> 53
Gln Ala Asp Phe Asp Glu Ala Ala Glu Glu Val Lys Lys Leu Lys Thr

1	5	10	15
Arg Pro Thr Asp Glu Glu Leu Lys Glu Leu Tyr Gly Phe Tyr Lys Gln			
20	25	30	
Ala Thr Val Gly Asp Ile Asn Ile Glu Cys Pro Gly Met Leu Asp Leu			
35	40	45	
Lys Gly Lys Ala Lys Trp Glu Ala Trp Asn Leu Lys Lys Gly Ile Ser			
50	55	60	
Lys Glu Asp Ala Met Asn Ala Tyr Ile Ser Lys Ala Lys Thr Met Val			
65	70	75	80
Glu Lys Tyr Gly Ile			
85			

<210> 54
<211> 86
<212> PRT
<213> Homo sapiens

<400> 54			
Ser Gln Ala Glu Phe Glu Lys Ala Ala Glu Glu Val Lys Asn Leu Lys			
1	5	10	15

Thr Lys Pro Ala Asp Asp Glu Met Leu Phe Ile Tyr Ser His Tyr Lys			
20	25	30	

Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Ile Leu Asp			
35	40	45	

Leu Lys Gly Lys Ala Lys Trp Asp Ala Trp Asn Gly Leu Lys Gly Thr			
50	55	60	

Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys Val Glu Glu Leu			
65	70	75	80

Lys Lys Lys Tyr Gly Ile			
85			

<210> 55
<211> 86
<212> PRT
<213> Homo sapiens

<400> 55			
Ser Gln Ala Glu Phe Asp Lys Ala Ala Glu Glu Val Lys His Leu Lys			
1	5	10	15

Thr Lys Pro Ala Asp Glu Glu Met Leu Phe Ile Tyr Ser His Tyr Lys			
20	25	30	

Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu Asp			
35	40	45	

Phe Lys Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys Gly Thr
50 55 60

Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asp Lys Val Glu Glu Leu
65 70 75 80

Lys Lys Lys Tyr Gly Ile
85

<210> 56

<211> 86

<212> PRT

<213> Homo sapiens

<400> 56

Ser Gln Ala Glu Phe Glu Lys Ala Ala Glu Glu Val Arg His Leu Lys
1 5 10 15

Thr Lys Pro Ser Asp Glu Glu Met Leu Phe Ile Tyr Gly His Tyr Lys
20 25 30

Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu Asp
35 40 45

Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys Gly Thr
50 55 60

Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys Val Glu Glu Leu
65 70 75 80

Lys Lys Lys Tyr Gly Ile
85

<210> 57

<211> 88

<212> PRT

<213> Homo sapiens

<400> 57

Met Ser Leu Gln Ala Asp Phe Asp Met Val Thr Glu Asp Val Arg Lys
1 5 10 15

Leu Lys Thr Arg Pro Asp Asp Glu Glu Leu Lys Glu Leu Tyr Gly Leu
20 25 30

Tyr Lys Gln Ala Val Ile Gly Asn Ile Asn Ile Glu Cys Ser Glu Met
35 40 45

Leu Glu Leu Lys Gly Lys Ala Lys Trp Glu Ala Gln Asn Pro Gln Lys
50 55 60

Gly Leu Ser Glu Glu Asp Met Met Arg Ala Phe Ile Ser Lys Ala Glu
65 70 75 80

Glu Leu Ile Glu Lys Tyr Gly Ile
85

<210> 58
<211> 82
<212> PRT
<213> Homo sapiens

<400> 58
Lys Arg Cys Ala Gly Ile Lys His Phe Lys Thr Lys Pro Ala Asp Asp
1 5 10 15

Glu Met Arg Phe Leu Tyr Gly His Tyr Lys Arg Ala Thr Val Gly Asn
20 25 30

Ile Lys Thr Glu Arg Pro Gly Met Val Asp Phe Lys Gly Lys Ala Lys
35 40 45

Trp Asp Pro Trp Asn Leu Val Lys Gly Ala Ala Arg Glu Asp Pro Met
50 55 60

Lys Ala Lys Ala Tyr Val Lys Val Glu Glu Leu Lys Lys Lys Phe
65 70 75 80

Arg Ile

<210> 59
<211> 80
<212> PRT
<213> Homo sapiens

<400> 59
Lys Ala Ala Glu Glu Val Lys His Leu Lys Thr Lys Pro Ala Asp Glu
1 5 10 15

Glu Met Leu Phe Ile Tyr Ser His Tyr Lys Gln Ala Thr Val Gly Asp
20 25 30

Ile Asn Thr Glu Arg Pro Gly Met Leu Asp Phe Lys Gly Lys Ala Lys
35 40 45

Trp Asp Ala Trp Asn Glu Leu Lys Gly Thr Ser Lys Glu Asp Ala Met
50 55 60

Lys Ala Tyr Ile Asp Lys Val Glu Glu Leu Lys Lys Lys Tyr Gly Ile
65 70 75 80

<210> 60
<211> 91
<212> PRT

<213> Homo sapiens

<400> 60

Glu Lys Lys Lys Lys Arg Cys Ala Gly Ile Lys His Phe Lys Thr
1 5 10 15

Lys Pro Ala Asp Asp Glu Met Arg Phe Leu Tyr Gly His Tyr Lys Arg
20 25 30

Ala Thr Val Gly Asn Ile Lys Thr Glu Arg Pro Gly Met Val Asp Phe
35 40 45

Lys Gly Lys Ala Lys Trp Asp Pro Trp Asn Leu Val Lys Gly Ala Ala
50 55 60

Arg Glu Asp Pro Met Lys Ala Lys Ala Tyr Val Lys Lys Val Glu Glu
65 70 75 80

Leu Lys Lys Lys Phe Arg Ile Arg Glu Thr Gly
85 90

<210> 61

<211> 88

<212> PRT

<213> Homo sapiens

<400> 61

Glu Ala Glu Phe Glu Lys Ala Ala Glu Glu Val Arg His Leu Lys Thr
1 5 10 15

Lys Pro Ser Asp Glu Glu Met Leu Phe Ile Tyr Gly His Tyr Lys Gln
20 25 30

Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu Asp Phe
35 40 45

Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys Gly Thr Ser
50 55 60

Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys Val Glu Glu Leu Lys
65 70 75 80

Lys Lys Tyr Gly Ile Glu Thr Gly
85

<210> 62

<211> 138

<212> PRT

<213> Homo sapiens

<400> 62

Met Ala Lys Pro Ile Ser Thr Lys Asn Thr Lys Ile Ser Arg His Gly
1 5 10 15

Trp His Ala Ala Val Ile Thr Ala Ala Arg Glu Ala Glu Asn

20	25	30
His Leu Ser Trp Glu Glu Lys Lys Lys Lys Arg Cys Ala Gly Ile		
35	40	45
Lys His Phe Lys Thr Lys Pro Ala Asp Asp Glu Met Arg Phe Leu Tyr		
50	55	60
Gly His Tyr Lys Arg Ala Thr Val Gly Asn Ile Lys Thr Glu Arg Pro		
65	70	75
Gly Met Val Asp Phe Lys Gly Lys Ala Lys Trp Asp Pro Trp Asn Leu		
85	90	95
Val Lys Gly Ala Ala Arg Glu Asp Pro Met Lys Ala Lys Ala Tyr Val		
100	105	110
Lys Lys Val Glu Glu Leu Lys Lys Lys Phe Arg Ile Arg Glu Thr Gly		
115	120	125
Ile Val Ala Ser His Ala Phe Val Leu Asn		
130	135	
<210> 63		
<211> 86		
<212> PRT		
<213> Homo sapiens		
<400> 63		
Ser Gln Ala Glu Phe Asp Lys Ala Ala Glu Glu Val Lys His Leu Lys		
1	5	10
15		
Thr Lys Pro Ala Asp Glu Glu Met Leu Phe Ile Tyr Ser His Tyr Lys		
20	25	30
Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu Asp		
35	40	45
Phe Lys Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys Gly Thr		
50	55	60
Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asp Lys Val Glu Glu Leu		
65	70	75
80		
Lys Lys Lys Tyr Gly Ile		
85		

<210> 64		
<211> 86		
<212> PRT		
<213> Homo sapiens		
<400> 64		
Ser Gln Ala Glu Phe Glu Lys Ala Ala Glu Glu Val Arg His Leu Lys		
1	5	10
15		

Thr Lys Pro Ser Asp Glu Glu Met Leu Phe Ile Tyr Gly His Tyr Lys
20 25 30

Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu Asp
35 40 45

Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys Gly Thr
50 55 60

Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys Val Glu Glu Leu
65 70 75 80

Lys Lys Lys Tyr Gly Ile
85

<210> 65

<211> 256

<212> DNA

<213> Homo sapiens

<400> 65

aggctgattt tgacaggcgt gcagaagatg tgaggaagct gaaagcaaga ccagatgtatg 60
gagaactgaa agaactctat gggcttaca aacaagcaat agttggagac attaatattt 120
cgtgtccagg aatgcttagat taaaaggca aagccaaatg ggaagcatgg aacctaaaaa 180
aagggttgtc gacggaagat gcgacgagtgc cctataatttc taaagcaaag gagctgatag 240
aaaaatacgg aattta 256

<210> 66

<211> 256

<212> DNA

<213> Homo sapiens

<400> 66

aggcagattt tgacaaagca gcaggggatg taaagaaatt gaaaacaaaa ccaactgacg 60
atgaactgaa ggaactgtac ggactctaca agcagtccac tggggatggac ataaatatag 120
agtgtcctgg catgcttagat ctgaagggca aggccaagtg ggacgcattgg aacctaaaga 180
aaggcttgtc taaggaagat gcgatgagcg cttatgttgc taaagccccat gagctgatag 240
aaaaatatgg cctgtt 256

<210> 67

<211> 258

<212> DNA

<213> Homo sapiens

<400> 67

aggctgattt tgacaggcgt gcagaagatg tgaggaagct gaaagcaaga ccagatgtatg 60
gagaactgaa agaactctat gggcttaca aacaagcaat agttggagac attaatattt 120
cgtgtccagg aatgcttagat taaaaggca aagccaaatg ggaagcatgg aacctaaaaa 180
aagggttgtc gacggaagat gcgacgagtgc cctataatttc taaagcaaag gagctgatag 240
aaaaatacgg aatttaga 258

<210> 68

<211> 259
<212> DNA
<213> Homo sapiens

<400> 68
aggctgagtt tgagaaaact gcagaggagg ttaggcacct taagaccaag ccatcgatg 60
aggagatgtctt gttcatctat ggccactaca aacaagcaac tggggcgac ataaatacag 120
aacggcccg gatgttgac ttcacggca aggccaagtg ggtgcctgg aatgagctga 180
aaggacttc caaggaagat gccatgaaag cttacatcaa caaagtagaa gagctaaaga 240
aaaaatacgg gatatgaga 259

<210> 69
<211> 88
<212> PRT
<213> Homo sapiens

<400> 69
Phe Phe Leu Lys Ala Asp Phe Asp Arg Ala Ala Glu Asp Val Arg Lys
1 5 10 15

Leu Lys Ala Arg Pro Asp Asp Gly Glu Leu Lys Glu Leu Tyr Gly Leu
20 25 30

Tyr Lys Gln Ala Ile Val Gly Asp Ile Asn Ile Ala Cys Pro Gly Met
35 40 45

Leu Asp Leu Lys Gly Lys Ala Lys Trp Glu Ala Trp Asn Leu Lys Lys
50 55 60

Gly Leu Ser Thr Glu Asp Ala Thr Ser Ala Tyr Ile Ser Lys Ala Lys
65 70 75 80

Glu Leu Ile Glu Lys Tyr Gly Ile
85

<210> 70
<211> 89
<212> PRT
<213> Homo sapiens

<400> 70
Phe Phe Leu His Gln Ala Asp Phe Asp Glu Ala Ala Glu Glu Val Lys
1 5 10 15

Lys Leu Lys Thr Arg Pro Thr Asp Glu Glu Leu Lys Glu Leu Tyr Gly
20 25 30

Phe Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Ile Glu Cys Pro Gly
35 40 45

Met Leu Asp Leu Lys Gly Lys Ala Lys Trp Glu Ala Trp Asn Leu Lys
50 55 60

Lys Gly Ile Ser Lys Glu Asp Ala Met Asn Ala Tyr Ile Ser Lys Ala
65 70 75 80

Lys Thr Met Val Glu Lys Tyr Gly Ile
85

<210> 71
<211> 85
<212> PRT
<213> Homo sapiens

<400> 71
Lys Ala Asp Phe Asp Arg Ala Ala Glu Asp Val Arg Lys Leu Lys Ala
1 5 10 15

Arg Pro Asp Asp Gly Glu Leu Lys Glu Leu Tyr Gly Leu Tyr Lys Gln
20 25 30

Ala Ile Val Gly Asp Ile Asn Ile Ala Cys Pro Gly Met Leu Asp Leu
35 40 45

Lys Gly Lys Ala Lys Trp Glu Ala Trp Asn Leu Lys Lys Gly Leu Ser
50 55 60

Thr Glu Asp Ala Thr Ser Ala Tyr Ile Ser Lys Ala Lys Glu Leu Ile
65 70 75 80

Glu Lys Tyr Gly Ile
85

<210> 72
<211> 85
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (1)...(85)
<223> Wherein Xaa is any amino acid.

<400> 72
Xaa Ala Asp Phe Asp Xaa Ala Ala Xaa Asp Val Xaa Lys Leu Lys Xaa
1 5 10 15

Xaa Pro Xaa Asp Xaa Glu Leu Lys Glu Leu Tyr Gly Leu Tyr Lys Gln
20 25 30

Xaa Xaa Val Gly Asp Ile Asn Ile Xaa Cys Pro Gly Met Leu Asp Leu
35 40 45

Lys Gly Lys Ala Lys Trp Xaa Ala Trp Asn Leu Lys Lys Gly Leu Ser
50 55 60

Xaa Glu Asp Ala Xaa Ser Ala Tyr Xaa Ser Lys Ala Xaa Glu Leu Ile
65 70 75 80

Glu Lys Tyr Gly Xaa

<210> 73
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 73
 Gln Ala Asp Phe Asp Lys Ala Ala Gly Asp Val Lys Lys Leu Lys Thr
 1 5 10 15

Lys Pro Thr Asp Asp Glu Leu Lys Glu Leu Tyr Gly Leu Tyr Lys Gln
 20 25 30

Ser Thr Val Gly Asp Ile Asn Ile Glu Cys Pro Gly Met Leu Asp Leu
 35 40 45

Lys Gly Lys Ala Lys Trp Asp Ala Trp Asn Leu Lys Lys Gly Leu Ser
 50 55 60

Lys Glu Asp Ala Met Ser Ala Tyr Val Ser Lys Ala His Glu Leu Ile
 65 70 75 80

Glu Lys Tyr Gly Leu
 85

<210> 74
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 74
 Met Leu Leu Leu Phe Val Cys Leu Phe Phe Leu Lys Ala Asp Phe Asp
 1 5 10 15

Arg Ala Ala Glu Asp Val Arg Lys Leu Lys Ala Arg Pro Asp Asp Gly
 20 25 30

Glu Leu Lys Glu Leu Tyr Gly Leu Tyr Lys Gln Ala Ile Val Gly Asp
 35 40 45

Ile Asn Ile Ala Cys Pro Gly Met Leu Asp Leu Lys Gly Lys Ala Lys
 50 55 60

Trp Glu Ala Trp Asn Leu Lys Lys Gly Leu Ser Thr Glu Asp Ala Thr
 65 70 75 80

Ser Ala Tyr Ile Ser Lys Ala Lys Glu Leu Ile Glu Lys Tyr Gly Ile
 85 90 95

<210> 75

<211> 88
<212> PRT
<213> Homo sapiens

<400> 75
Met Ser Pro Gln Ala Asp Phe Asp Lys Ala Ala Gly Asp Val Lys Lys
1 5 10 15

Leu Lys Thr Lys Pro Thr Asp Asp Glu Leu Lys Glu Leu Tyr Gly Leu
20 25 30

Tyr Lys Gln Ser Thr Val Gly Asp Ile Asn Ile Glu Cys Pro Gly Met
35 40 45

Leu Asp Leu Lys Gly Lys Ala Lys Trp Asp Ala Trp Asn Leu Lys Lys
50 55 60

Gly Leu Ser Lys Glu Asp Ala Met Ser Ala Tyr Val Ser Lys Ala His
65 70 75 80

Glu Leu Ile Glu Lys Tyr Gly Leu
85

<210> 76
<211> 103
<212> PRT
<213> Homo sapiens

<400> 76
Met Phe Gln Ala His Leu Leu Arg Gly Thr Leu Thr Leu Ser Phe Phe
1 5 10 15

Leu His Gln Ala Asp Phe Asp Glu Ala Ala Glu Glu Val Lys Lys Leu
20 25 30

Lys Thr Arg Pro Thr Asp Glu Glu Leu Lys Glu Leu Tyr Gly Phe Tyr
35 40 45

Lys Gln Ala Thr Val Gly Asp Ile Asn Ile Glu Cys Pro Gly Met Leu
50 55 60

Asp Leu Lys Gly Lys Ala Lys Trp Glu Ala Trp Asn Leu Lys Lys Gly
65 70 75 80

Ile Ser Lys Glu Asp Ala Met Asn Ala Tyr Ile Ser Lys Ala Lys Thr
85 90 95

Met Val Glu Lys Tyr Gly Ile
100

<210> 77
<211> 87
<212> PRT
<213> Homo sapiens

<400> 77
 Met Ser Gln Ala Glu Phe Glu Lys Ala Ala Glu Glu Val Arg His Leu
 1 5 10 15
 Lys Thr Lys Pro Ser Asp Glu Glu Met Leu Phe Ile Tyr Gly His Tyr
 20 25 30
 Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu
 35 40 45
 Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys Gly
 50 55 60
 Thr Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys Val Glu Glu
 65 70 75 80
 Leu Lys Lys Tyr Gly Ile
 85

<210> 78
 <211> 274
 <212> DNA
 <213> Homo sapiens

<400> 78
 ccaccatggc actgcaggct gaattcgaca aggctgcaga agacgtgagg aagctccaa 60
 caagaccagc agataataaa gaactgaaaa aactcgatgg accttacaaa caagctataa 120
 ttggagacat taatatttag tatactggaa tgctggactt taagggcaag gccaaatg 180
 cagcatggac cctccaaaaa aggttgtcaa aggaagatgc aacgagtgtc tctatttcta 240
 aggccaaaaga gcccataaaaaaa aaataggaca ttta 274

<210> 79
 <211> 271
 <212> DNA
 <213> Homo sapiens

<400> 79
 caaccatgtc accccaggca gatttgaca aagcagcagg ggatgtaaag aaattgaaaa 60
 caaaaaccaac tgacgatgaa ctgaaggaac tgtacggact ctacaagcag tccactgtt 120
 gggacataaa tatagagtgt cctggcatgc tagatctgaa gggcaaggcc aagtgggacg 180
 catggaacct aaagaaaggc ttgtctaagg aagatgcgt gagcgcttat gtttctaaag 240
 cccatgagct gatagaaaaa tatggcctgt a 271

<210> 80
 <211> 262
 <212> DNA
 <213> Homo sapiens

<400> 80
 caggctgaat tcgacaaggc tgcagaagac gtgaggaagc tgccaacaag accagcagat 60
 aataaaagaac tggaaaaact cgatggactt tacaaacaag ctataattgg agacattaat 120
 attgagtatc tggaaatgct ggactttaag ggcaaggcc aatgcgcagc atggaccctc 180
 caaaaaaggt tgtcaaagga agatgcaacg agtgtctcta tttctaaggc aaaagagccg 240
 atagaaaaat aggacattna ga 262

<210> 81
 <211> 260
 <212> DNA
 <213> Homo sapiens

<400> 81
 caggctgagt ttgagaaagc tgtagggacc ttaagaccaa gccatcgat 60
 gaggagatgc tggccactac aaacaagcaa ctgtgggcga cataaataca 120
 gaacggcccg ggatgttggc cttcacggc aaggccaagt gggatgcctg gaatgagctg 180
 aaagggactt ccaaggaaga tgccatgaaa gcttacatca acaaagttaga agagctaaag 240
 aaaaaatacg ggatatgaga 260

<210> 82
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 82
 Met Ala Leu Gln Ala Glu Phe Asp Lys Ala Ala Glu Asp Val Arg Lys
 1 5 10 15

Leu Pro Thr Arg Pro Ala Asp Asn Lys Glu Leu Lys Lys Leu Asp Gly
 20 25 30

Leu Tyr Lys Gln Ala Ile Ile Gly Asp Ile Asn Ile Glu Tyr Leu Gly
 35 40 45

Met Leu Asp Phe Lys Gly Lys Ala Lys Cys Ala Ala Trp Thr Leu Gln
 50 55 60

Lys Arg Leu Ser Lys Glu Asp Ala Thr Ser Val Ser Ile Ser Lys Ala
 65 70 75 80

Lys Glu Pro Ile Glu Lys
 85

<210> 83
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 83
 Met Ser Pro Gln Ala Asp Phe Asp Lys Ala Ala Gly Asp Val Lys Lys
 1 5 10 15

Leu Lys Thr Lys Pro Thr Asp Asp Glu Leu Lys Glu Leu Tyr Gly Leu
 20 25 30

Tyr Lys Gln Ser Thr Val Gly Asp Ile Asn Ile Glu Cys Pro Gly Met
 35 40 45

Leu Asp Leu Lys Gly Lys Ala Lys Trp Asp Ala Trp Asn Leu Lys Lys
 50 55 60

Gly Leu Ser Lys Glu Asp Ala Met Ser Ala Tyr Val Ser Lys Ala His
65 70 75 80

Glu Leu Ile Glu Lys
85

<210> 84
<211> 88
<212> PRT
<213> Homo sapiens

<400> 84
Met Ser Pro Gln Ala Asp Phe Asp Lys Ala Ala Gly Asp Val Lys Lys
1 5 10 15

Leu Lys Thr Lys Pro Thr Asp Asp Glu Leu Lys Glu Leu Tyr Gly Leu
20 25 30

Tyr Lys Gln Ser Thr Val Gly Asp Ile Asn Ile Glu Cys Pro Gly Met
35 40 45

Leu Asp Leu Lys Gly Lys Ala Lys Trp Asp Ala Trp Asn Leu Lys Lys
50 55 60

Gly Leu Ser Lys Glu Asp Ala Met Ser Ala Tyr Val Ser Lys Ala His
65 70 75 80

Glu Leu Ile Glu Lys Tyr Gly Leu
85

<210> 85
<211> 103
<212> PRT
<213> Homo sapiens

<400> 85
Met Phe Gln Ala His Leu Leu Arg Gly Thr Leu Thr Leu Ser Phe Phe
1 5 10 15

Leu His Gln Ala Asp Phe Asp Glu Ala Ala Glu Glu Val Lys Lys Leu
20 25 30

Lys Thr Arg Pro Thr Asp Glu Glu Leu Lys Glu Leu Tyr Gly Phe Tyr
35 40 45

Lys Gln Ala Thr Val Gly Asp Ile Asn Ile Glu Cys Pro Gly Met Leu
50 55 60

Asp Leu Lys Gly Lys Ala Lys Trp Glu Ala Trp Asn Leu Lys Lys Gly
65 70 75 80

Ile Ser Lys Glu Asp Ala Met Asn Ala Tyr Ile Ser Lys Ala Lys Thr
85 90 95

Met Val Glu Lys Tyr Gly Ile
100

<210> 86
<211> 87
<212> PRT
<213> Homo sapiens

<400> 86
Met Ser Gln Ala Glu Phe Glu Lys Ala Ala Glu Glu Val Arg His Leu
1 5 10 15

Lys Thr Lys Pro Ser Asp Glu Glu Met Leu Phe Ile Tyr Gly His Tyr
20 25 30

Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu
35 40 45

Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys Gly
50 55 60

Thr Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys Val Glu Glu
65 70 75 80

Leu Lys Lys Tyr Gly Ile
85

<210> 87
<211> 86
<212> PRT
<213> Homo sapiens

<400> 87
Met Ala Leu Gln Ala Glu Phe Asp Lys Ala Ala Glu Asp Val Arg Lys
1 5 10 15

Leu Pro Thr Arg Pro Ala Asp Asn Lys Glu Leu Lys Lys Leu Asp Gly
20 25 30

Leu Tyr Lys Gln Ala Ile Ile Gly Asp Ile Asn Ile Glu Tyr Leu Gly
35 40 45

Met Leu Asp Phe Lys Gly Lys Ala Lys Cys Ala Ala Trp Thr Leu Gln
50 55 60

Lys Arg Leu Ser Lys Glu Asp Ala Thr Ser Val Ser Ile Ser Lys Ala
65 70 75 80

Lys Glu Pro Ile Glu Lys
85

<210> 88
<211> 530
<212> PRT

<213> Homo sapiens

<400> 88

Met	Phe	Gln	Phe	His	Ala	Gly	Ser	Trp	Glu	Ser	Trp	Cys	Cys	Cys	Cys
1				5				10				15			
Leu	Ile	Pro	Ala	Asp	Arg	Pro	Trp	Asp	Arg	Gly	Gln	His	Trp	Gln	Leu
				20				25				30			
Glu	Met	Ala	Asp	Thr	Arg	Ser	Val	His	Glu	Thr	Arg	Phe	Glu	Ala	Ala
	35				40						45				
Val	Lys	Val	Ile	Gln	Ser	Leu	Pro	Lys	Asn	Gly	Ser	Phe	Gln	Pro	Thr
	50				55					60					
Asn	Glu	Met	Met	Leu	Lys	Phe	Tyr	Ser	Phe	Tyr	Lys	Gln	Ala	Thr	Glu
	65				70				75			80			
Gly	Pro	Cys	Lys	Leu	Ser	Arg	Pro	Gly	Phe	Trp	Asp	Pro	Ile	Gly	Arg
		85				90						95			
Tyr	Lys	Trp	Asp	Ala	Trp	Ser	Ser	Leu	Gly	Asp	Met	Thr	Lys	Glu	Glu
	100					105					110				
Ala	Met	Ile	Ala	Tyr	Val	Glu	Glu	Met	Lys	Lys	Ile	Ile	Glu	Thr	Met
		115				120					125				
Pro	Met	Thr	Glu	Lys	Val	Glu	Glu	Leu	Leu	Arg	Val	Ile	Gly	Pro	Phe
	130				135					140					
Tyr	Glu	Ile	Val	Glu	Asp	Lys	Lys	Ser	Gly	Arg	Ser	Ser	Asp	Ile	Thr
	145				150				155			160			
Ser	Val	Arg	Leu	Glu	Lys	Ile	Ser	Lys	Cys	Leu	Glu	Asp	Leu	Gly	Asn
		165				170					175				
Val	Leu	Thr	Ser	Thr	Pro	Asn	Ala	Lys	Thr	Val	Asn	Gly	Lys	Ala	Glu
		180				185					190				
Ser	Ser	Asp	Ser	Gly	Ala	Glu	Ser	Glu	Glu	Glu	Ala	Gln	Glu	Glu	
		195				200				205					
Val	Lys	Gly	Ala	Glu	His	Ser	Asp	Asn	Asp	Lys	Lys	Met	Met	Lys	Lys
	210				215					220					
Ser	Ala	Asp	His	Lys	Asn	Leu	Glu	Val	Ile	Val	Thr	Asn	Gly	Tyr	Asp
	225				230				235			240			
Lys	Asp	Gly	Phe	Val	Gln	Asp	Ile	Gln	Asn	Asp	Ile	His	Ala	Ser	Ser
		245				250					255				
Ser	Leu	Asn	Gly	Arg	Ser	Thr	Glu	Glu	Val	Lys	Pro	Ile	Asp	Glu	Asn
		260				265				270					
Leu	Gly	Gln	Thr	Gly	Lys	Ser	Ala	Val	Cys	Ile	His	Gln	Gly	Ile	Asn
		275				280				285					

Asp Asp His Val Glu Asp Val Thr Gly Ile Gln His Leu Thr Ser Asp
 290 295 300

 Ser Asp Ser Glu Val Tyr Cys Asp Ser Met Glu Gln Phe Gly Gln Glu
 305 310 315 320

 Glu Ser Leu Asp Ser Phe Thr Ser Asn Asn Gly Pro Phe Gln Tyr Tyr
 325 330 335

 Leu Gly Gly His Ser Ser Gln Pro Met Glu Asn Ser Gly Phe Arg Glu
 340 345 350

 Asp Ile Gln Val Pro Pro Gly Asn Gly Asn Ile Gly Asn Met Gln Val
 355 360 365

 Val Ala Val Glu Gly Lys Gly Glu Val Lys His Gly Gly Glu Asp Gly
 370 375 380

 Arg Asn Asn Ser Gly Ala Pro His Arg Glu Lys Arg Gly Gly Glu Thr
 385 390 395 400

 Asp Glu Phe Ser Asn Val Arg Arg Gly Arg Gly His Arg Met Gln His
 405 410 415

 Leu Ser Glu Gly Thr Lys Gly Arg Gln Val Gly Ser Gly Asp Gly
 420 425 430

 Glu Arg Trp Gly Ser Asp Arg Gly Ser Arg Gly Ser Leu Asn Glu Gln
 435 440 445

 Ile Ala Leu Val Leu Met Arg Leu Gln Glu Asp Met Gln Asn Val Leu
 450 455 460

 Gln Arg Leu Gln Lys Leu Glu Thr Leu Thr Ala Ala Lys Ser Ser Thr
 465 470 475 480

 Ser Thr Leu Gln Thr Ala Pro Gln Pro Thr Ser Ser Gln Arg Pro Ser
 485 490 495

 Trp Trp Pro Phe Glu Met Ser Pro Gly Val Leu Thr Phe Ala Ile Ile
 500 505 510

 Trp Pro Phe Ile Ala Gln Trp Leu Val Tyr Leu Tyr Tyr Gln Arg Arg
 515 520 525

 Arg Arg
 530

<210> 89
 <211> 530
 <212> PRT
 <213> Homo sapiens

<400> 89
 Met Phe Gln Phe His Ala Gly Ser Trp Glu Ser Trp Cys Cys Cys Cys
 1 5 10 15

Cys Leu Ile Pro Gly Asp Arg Pro Trp Asp Arg Gly Arg Arg Trp Arg
 20 25 30

Leu Glu Met Arg His Thr Arg Ser Val His Glu Thr Arg Phe Glu Ala
 35 40 45

Ala Val Lys Val Ile Gln Ser Leu Pro Lys Asn Gly Ser Phe Gln Pro
 50 55 60

Thr Asn Glu Met Met Leu Lys Phe Tyr Ser Phe Tyr Lys Gln Ala Thr
 65 70 75 80

Glu Gly Pro Cys Lys Leu Ser Lys Pro Gly Phe Trp Asp Pro Val Gly
 85 90 95

Arg Tyr Lys Trp Asp Ala Trp Ser Ser Leu Gly Asp Met Thr Lys Glu
 100 105 110

Glu Ala Met Ile Ala Tyr Val Glu Glu Met Lys Lys Ile Leu Glu Thr
 115 120 125

Met Pro Met Thr Glu Lys Val Glu Glu Leu Leu His Val Ile Gly Pro
 130 135 140

Phe Tyr Glu Ile Val Glu Asp Lys Lys Ser Gly Arg Ser Ser Asp Leu
 145 150 155 160

Thr Ser Val Arg Leu Glu Lys Ile Ser Lys Cys Leu Glu Asp Leu Gly
 165 170 175

Asn Val Leu Ala Ser Thr Pro Asn Ala Lys Thr Val Asn Gly Lys Ala
 180 185 190

Glu Ser Ser Asp Ser Gly Ala Glu Ser Glu Glu Ala Ala Gln Glu
 195 200 205

Asp Pro Lys Arg Pro Glu Pro Arg Asp Ser Asp Lys Lys Met Met Lys
 210 215 220

Lys Ser Ala Asp His Lys Asn Leu Glu Ile Ile Val Thr Asn Gly Tyr
 225 230 235 240

Asp Lys Asp Ser Phe Val Gln Gly Val Gln Asn Ser Ile His Thr Ser
 245 250 255

Pro Ser Leu Asn Gly Arg Cys Thr Glu Glu Val Lys Ser Val Asp Glu
 260 265 270

Asn Leu Glu Gln Thr Gly Lys Thr Val Val Phe Val His Gln Asp Val
 275 280 285

Asn Ser Asp His Val Glu Asp Ile Ser Gly Ile Gln His Leu Thr Ser
 290 295 300

Asp Ser Asp Ser Glu Val Tyr Cys Asp Ser Met Glu Gln Phe Gly Gln
 305 310 315 320

Glu Glu Ser Leu Asp Gly Phe Ile Ser Asn Asn Gly Pro Phe Ser Tyr
 325 330 335
 Tyr Leu Gly Gly Asn Pro Ser Gln Pro Leu Glu Ser Ser Gly Phe Pro
 340 345 350
 Glu Ala Val Gln Gly Leu Pro Gly Asn Gly Ser Pro Glu Asp Met Gln
 355 360 365
 Gly Ala Val Val Glu Gly Lys Gly Glu Val Lys Arg Gly Gly Glu Asp
 370 375 380
 Gly Gly Ser Asn Ser Gly Ala Pro His Arg Glu Lys Arg Ala Gly Glu
 385 390 395 400
 Ser Glu Glu Phe Ser Asn Ile Arg Arg Gly Arg Gly His Arg Met Gln
 405 410 415
 His Leu Ser Glu Gly Ser Lys Gly Arg Gln Val Gly Ser Gly Gly Asp
 420 425 430
 Gly Glu Arg Trp Gly Ser Asp Arg Gly Ser Arg Gly Ser Leu Asn Glu
 435 440 445
 Gln Ile Ala Leu Val Leu Met Arg Leu Gln Glu Asp Met Gln Asn Val
 450 455 460
 Leu Gln Arg Leu His Lys Leu Glu Met Leu Ala Ala Ser Gln Ala Lys
 465 470 475 480
 Ser Ser Ala Leu Gln Thr Ser Asn Gln Pro Thr Ser Pro Arg Pro Ser
 485 490 495
 Trp Trp Pro Phe Glu Met Ser Pro Gly Ala Leu Thr Phe Ala Ile Ile
 500 505 510
 Trp Pro Phe Ile Ala Gln Trp Leu Val His Leu Tyr Tyr Gln Arg Arg
 515 520 525
 Arg Arg
 530

 <210> 90
 <211> 86
 <212> PRT
 <213> Homo sapiens

 <400> 90
 Met Ser Gln Ala Phe Glu Lys Ala Ala Lys Asp Ile Lys His Leu Glu
 1 5 10 15

 Thr Lys Pro Ala Asp Asp Glu Arg Met Phe Ile Tyr Ser Arg Cys Lys
 20 25 30

 Gln Ala Thr Val His Asp Leu Asn Thr Glu Trp Pro Arg Met Leu Asp

35	40	45
Leu Lys Gly Lys Ala Lys Gln Asp Ala Trp Asn Glu Leu Lys Asp Thr		
50	55	60
Ala Lys Glu Asp Ala Val Lys Ala Asp Ile Asn Lys Val Glu Glu Arg		
65	70	75
Asn Lys Lys Tyr Arg Ile		
85		
<210> 91		
<211> 87		
<212> PRT		
<213> Homo sapiens		
<400> 91		
Met Ser Gln Ala Glu Phe Asp Lys Ala Ala Glu Glu Val Lys His Leu		
1	5	10
		15
Lys Thr Lys Pro Ala Asp Glu Glu Met Leu Phe Ile Tyr Ser His Tyr		
20	25	30
Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu		
35	40	45
Asp Phe Lys Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys Gly		
50	55	60
Thr Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asp Lys Val Glu Glu		
65	70	75
		80
Leu Lys Lys Lys Tyr Gly Ile		
85		
<210> 92		
<211> 104		
<212> PRT		
<213> Homo sapiens		
<400> 92		
Met Trp Gly Asp Leu Trp Leu Leu Pro Pro Ala Ser Ala Asn Pro Gly		
1	5	10
		15
Thr Gly Thr Glu Ala Glu Phe Glu Lys Ala Ala Glu Glu Val Arg His		
20	25	30
Leu Lys Thr Lys Pro Ser Asp Glu Glu Met Leu Phe Ile Tyr Gly His		
35	40	45
Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met		
50	55	60
Leu Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys		
65	70	75
		80

Gly Thr Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys Val Glu
85 90 95

Glu Leu Lys Lys Lys Tyr Gly Ile
100

<210> 93
<211> 104
<212> PRT
<213> Homo sapiens

<400> 93
Met Trp Gly Asp Leu Trp Leu Leu Pro Pro Ala Ser Ala Asn Pro Gly
1 5 10 15

Thr Gly Thr Glu Ala Glu Phe Glu Lys Ala Ala Glu Glu Val Arg His
20 25 30

Leu Lys Thr Lys Pro Ser Asp Glu Glu Met Leu Phe Ile Tyr Gly His
35 40 45

Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met
50 55 60

Leu Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys
65 70 75 80

Gly Thr Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys Val Glu
85 90 95

Glu Leu Lys Lys Lys Tyr Gly Ile
100

<210> 94
<211> 359
<212> PRT
<213> Homo sapiens

<400> 94
Met Arg Ala Ser Gln Lys Asp Phe Glu Asn Ser Met Asn Gln Val Lys
1 5 10 15

Leu Leu Lys Lys Asp Pro Gly Asn Glu Val Lys Leu Lys Leu Tyr Ala
20 25 30

Leu Tyr Lys Gln Ala Thr Glu Gly Pro Cys Asn Met Pro Lys Pro Gly
35 40 45

Val Phe Asp Leu Ile Asn Lys Ala Lys Trp Asp Ala Trp Asn Ala Leu
50 55 60

Gly Ser Leu Pro Lys Glu Ala Ala Arg Gln Asn Tyr Val Asp Leu Val
65 70 75 80

Ser Ser Leu Ser Pro Ser Leu Glu Ser Ser Ser Gln Val Glu Pro Gly
 85 90 95

 Thr Asp Arg Lys Ser Thr Gly Phe Glu Thr Leu Val Val Thr Ser Glu
 100 105 110

 Asp Gly Ile Thr Lys Ile Met Phe Asn Arg Pro Lys Lys Lys Asn Ala
 115 120 125

 Ile Asn Thr Glu Met Tyr His Glu Ile Met Arg Ala Leu Lys Ala Ala
 130 135 140

 Ser Lys Asp Asp Ser Ile Ile Thr Val Leu Thr Gly Asn Gly Asp Tyr
 145 150 155 160

 Tyr Ser Ser Gly Asn Asp Leu Thr Asn Phe Thr Asp Ile Pro Pro Gly
 165 170 175

 Gly Val Glu Glu Lys Ala Lys Asn Asn Ala Val Leu Leu Arg Glu Phe
 180 185 190

 Val Gly Cys Phe Ile Asp Phe Pro Lys Pro Leu Ile Ala Val Val Asn
 195 200 205

 Gly Pro Ala Val Gly Ile Ser Val Thr Leu Leu Gly Leu Phe Asp Ala
 210 215 220

 Val Tyr Ala Ser Asp Arg Ala Thr Phe His Thr Pro Phe Ser His Leu
 225 230 235 240

 Gly Gln Ser Pro Glu Gly Cys Ser Ser Tyr Thr Phe Pro Lys Ile Met
 245 250 255

 Ser Pro Ala Lys Ala Thr Glu Met Leu Ile Phe Gly Lys Lys Leu Thr
 260 265 270

 Ala Gly Glu Ala Cys Ala Gln Gly Leu Val Thr Glu Val Phe Pro Asp
 275 280 285

 Ser Thr Phe Gln Lys Glu Val Trp Thr Arg Leu Lys Ala Phe Ala Lys
 290 295 300

 Leu Pro Pro Asn Ala Leu Arg Ile Ser Lys Glu Val Ile Arg Lys Arg
 305 310 315 320

 Glu Arg Glu Lys Leu His Ala Val Asn Ala Glu Glu Cys Asn Val Leu
 325 330 335

 Gln Gly Arg Trp Leu Ser Asp Glu Cys Thr Asn Ala Val Val Asn Phe
 340 345 350

 Leu Ser Arg Lys Ser Lys Leu
 355

<210> 95
 <211> 359

<212> PRT

<213> Homo sapiens

<400> 95

Met Arg Ala Ser Gln Lys Asp Phe Glu Asn Ser Met Asn Gln Val Lys
1 5 10 15

Leu Leu Lys Lys Asp Pro Gly Asn Glu Val Lys Leu Lys Leu Tyr Ala
20 25 30

Leu Tyr Lys Gln Ala Thr Glu Gly Pro Cys Asn Met Pro Lys Pro Gly
35 40 45

Val Phe Asp Leu Ile Asn Lys Ala Lys Trp Asp Ala Trp Asn Ala Leu
50 55 60

Gly Ser Leu Pro Lys Glu Ala Ala Arg Gln Asn Tyr Val Asp Leu Val
65 70 75 80

Ser Ser Leu Ser Pro Ser Leu Glu Ser Ser Ser Gln Val Glu Pro Gly
85 90 95

Thr Asp Arg Lys Ser Thr Gly Phe Glu Thr Leu Val Val Thr Ser Glu
100 105 110

Asp Gly Ile Thr Lys Ile Met Phe Asn Arg Pro Lys Lys Lys Asn Ala
115 120 125

Ile Asn Thr Glu Met Tyr His Glu Ile Met Arg Ala Leu Lys Ala Ala
130 135 140

Ser Lys Asp Asp Ser Ile Ile Thr Val Leu Thr Gly Asn Gly Asp Tyr
145 150 155 160

Tyr Ser Ser Gly Asn Asp Leu Thr Asn Phe Thr Asp Ile Pro Pro Gly
165 170 175

Gly Val Glu Glu Lys Ala Lys Asn Asn Ala Val Leu Leu Arg Glu Phe
180 185 190

Val Gly Cys Phe Ile Asp Phe Pro Lys Pro Leu Ile Ala Val Val Asn
195 200 205

Gly Pro Ala Val Gly Ile Ser Val Thr Leu Leu Gly Leu Phe Asp Ala
210 215 220

Val Tyr Ala Ser Asp Arg Ala Thr Phe His Thr Pro Phe Ser His Leu
225 230 235 240

Gly Gln Ser Pro Glu Gly Cys Ser Ser Tyr Thr Phe Pro Lys Ile Met
245 250 255

Ser Pro Ala Lys Ala Thr Glu Met Leu Ile Phe Gly Lys Lys Leu Thr
260 265 270

Ala Gly Glu Ala Cys Ala Gln Gly Leu Val Thr Glu Val Phe Pro Asp
275 280 285

Ser	Thr	Phe	Gln	Lys	Glu	Val	Trp	Thr	Arg	Leu	Lys	Ala	Phe	Ala	Lys
290					295						300				
Leu	Pro	Pro	Asn	Ala	Leu	Arg	Ile	Ser	Lys	Glu	Val	Ile	Arg	Lys	Arg
305					310				315			320			
Glu	Arg	Glu	Lys	Leu	His	Ala	Val	Asn	Ala	Glu	Glu	Cys	Asn	Val	Leu
					325			330				335			
Gln	Gly	Arg	Trp	Leu	Ser	Asp	Glu	Cys	Thr	Asn	Ala	Val	Val	Asn	Phe
					340		345				350				
Leu	Ser	Arg	Lys	Ser	Lys	Leu									
					355										

<210> 96
<211> 282
<212> PRT
<213> Homo sapiens

<400> 96															
Met	Ala	Ser	Ser	Phe	Leu	Pro	Ala	Gly	Ala	Ile	Thr	Gly	Asp	Ser	Gly
1				5						10				15	
Gly	Glu	Leu	Ser	Ser	Gly	Asp	Asp	Ser	Gly	Glu	Val	Glu	Phe	Pro	His
					20			25				30			
Ser	Pro	Glu	Ile	Glu	Glu	Thr	Ser	Cys	Leu	Ala	Glu	Leu	Phe	Glu	Lys
						35		40				45			
Ala	Ala	Ala	His	Leu	Gln	Gly	Leu	Ile	Gln	Val	Ala	Ser	Arg	Glu	Gln
					50			55			60				
Leu	Leu	Tyr	Leu	Tyr	Ala	Arg	Tyr	Lys	Gln	Val	Lys	Val	Gly	Asn	Cys
					65		70			75			80		
Asn	Thr	Pro	Lys	Pro	Ser	Phe	Phe	Asp	Phe	Glu	Gly	Lys	Gln	Lys	Trp
					85			90				95			
Glu	Ala	Trp	Lys	Ala	Leu	Gly	Asp	Ser	Ser	Pro	Ser	Gln	Ala	Met	Gln
					100			105				110			
Glu	Tyr	Ile	Ala	Val	Val	Lys	Lys	Leu	Asp	Pro	Gly	Trp	Asn	Pro	Gln
					115			120			125				
Ile	Pro	Glu	Lys	Lys	Gly	Lys	Glu	Ala	Asn	Thr	Gly	Phe	Gly	Gly	Pro
					130			135			140				
Val	Ile	Ser	Ser	Leu	Tyr	His	Glu	Glu	Thr	Ile	Arg	Glu	Glu	Asp	Lys
					145			150			155			160	
Asn	Ile	Phe	Asp	Tyr	Cys	Arg	Glu	Asn	Asn	Ile	Asp	His	Ile	Thr	Lys
					165			170			175				
Ala	Ile	Lys	Ser	Lys	Asn	Val	Asp	Val	Asn	Val	Lys	Asp	Glu	Glu	Gly

180	185	190
Arg Ala Leu Leu His Trp Ala Cys Asp Arg Gly His Lys Glu Leu Val		
195	200	205
Thr Val Leu Leu Gln His Arg Ala Asp Ile Asn Cys Gln Asp Asn Glu		
210	215	220
Gly Gln Thr Ala Leu His Tyr Ala Ser Ala Cys Glu Phe Leu Asp Ile		
225	230	235
Val Glu Leu Leu Gln Ser Gly Ala Asp Pro Thr Leu Arg Asp Gln		
245	250	255
Asp Gly Cys Leu Pro Glu Glu Val Thr Gly Cys Lys Thr Val Ser Leu		
260	265	270
Val Leu Gln Arg His Thr Thr Gly Lys Ala		
275	280	
<210> 97		
<211> 279		
<212> PRT		
<213> Homo sapiens		
<400> 97		
Met Ala Ser Ser Phe Leu Pro Ala Gly Ala Ile Thr Gly Asp Ser Gly		
1	5	10
15		
Gly Glu Leu Ser Ser Gly Asp Asp Ser Gly Glu Val Glu Phe Pro His		
20	25	30
Ser Pro Glu Ile Glu Glu Thr Ser Cys Leu Ala Glu Leu Phe Glu Lys		
35	40	45
Ala Ala Ala His Leu Gln Gly Leu Ile Gln Val Ala Ser Arg Glu Gln		
50	55	60
Leu Leu Tyr Leu Tyr Ala Arg Tyr Lys Gln Val Lys Val Gly Asn Cys		
65	70	75
80		
Asn Thr Pro Lys Pro Ser Phe Phe Asp Phe Glu Gly Lys Gln Lys Trp		
85	90	95
Glu Ala Trp Lys Ala Leu Gly Asp Ser Ser Pro Ser Gln Ala Met Gln		
100	105	110
Glu Tyr Ile Ala Val Val Lys Lys Leu Asp Pro Gly Trp Asn Pro Gln		
115	120	125
Ile Pro Glu Lys Lys Arg Lys Arg Ser Lys Tyr Lys Val Trp Ala Ser		
130	135	140
Tyr Phe Ser Ile Ser Arg Asn His Gln Gly Arg Asp Lys Asn Ile Phe		
145	150	155
160		

Asp Tyr Cys Arg Glu Asn Asn Ile Asp His Ile Thr Lys Ala Ile Lys
 165 170 175
 Ser Lys Asn Val Asp Val Asn Val Lys Asp Glu Glu Gly Arg Ala Leu
 180 185 190
 Leu His Trp Ala Cys Asp Arg Gly His Lys Glu Leu Val Thr Val Leu
 195 200 205
 Leu Gln His Arg Ala Asp Ile Asn Cys Gln Asp Asn Glu Gly Gln Thr
 210 215 220
 Ala Leu His Tyr Ala Ser Ala Cys Glu Phe Leu Asp Ile Val Glu Leu
 225 230 235 240
 Leu Leu Gln Ser Gly Ala Asp Pro Thr Leu Arg Asp Gln Asp Gly Cys
 245 250 255
 Leu Pro Glu Glu Val Thr Gly Cys Lys Thr Val Ser Leu Val Leu Gln
 260 265 270
 Arg His Thr Thr Gly Lys Ala
 275

<210> 98
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 98
 Thr Ala Ser Thr Thr Pro Cys Ala Lys Trp Ser Ser Ser Cys Ala Ala
 1 5 10 15
 Leu Lys Gln Leu Lys Gly Pro Val Ser Asp Gln Glu Lys Leu Leu Val
 20 25 30
 Tyr Gly Leu Tyr Lys Gln Ala Thr Gln Gly Asp Cys Asp Ile Pro Gly
 35 40 45
 Pro Pro Ala Ser Asp Val Arg Ala Arg Ala Lys Trp Glu Ala Trp Ser
 50 55 60
 Ala Asn Lys Gly Ala Ser Lys Met Asp Ala Met Arg Gly Tyr Ala Ala
 65 70 75 80
 Lys Val Glu Glu Leu Thr Lys Lys Glu
 85

<210> 99
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 99
 Met Trp Gly Asp Leu Trp Leu Leu Pro Pro Ala Ser Ala Asn Pro Gly

1	5	10	15
Thr Gly Thr Glu Ala Glu Phe Glu Lys Ala Ala Glu Glu Val Arg His			
20	25	30	
Leu Lys Thr Lys Pro Ser Asp Glu Glu Met Leu Phe Ile Tyr Gly His			
35	40	45	
Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met			
50	55	60	
Leu Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys			
65	70	75	80
Gly Thr Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys Val Glu			
85	90	95	
Glu Leu Lys Lys Lys Tyr Gly Ile			
100			

<210> 100
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 100			
Met Ser Gln Ala Phe Glu Lys Ala Ala Lys Asp Ile Lys His Leu Glu			
1	5	10	15
Thr Lys Pro Ala Asp Asp Glu Arg Met Phe Ile Tyr Ser Arg Cys Lys			
20	25	30	
Gln Ala Thr Val His Asp Leu Asn Thr Glu Trp Pro Arg Met Leu Asp			
35	40	45	
Leu Lys Gly Lys Ala Lys Gln Asp Ala Trp Asn Glu Leu Lys Asp Thr			
50	55	60	
Ala Lys Glu Asp Ala Val Lys Ala Asp Ile Asn Lys Val Glu Glu Arg			
65	70	75	80
Asn Lys Lys Tyr Arg Ile			
85			

<210> 101
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 101			
Met Ala Lys Pro Ile Ser Thr Lys Asn Thr Lys Ile Ser Arg His Gly			
1	5	10	15
Trp His Ala Ala Val Ile Thr Ala Ala Arg Glu Ala Glu Ala Glu Asn			
20	25	30	

His	Leu	Ser	Trp	Glu	Glu	Lys	Lys	Lys	Lys	Arg	Cys	Ala	Gly	Ile	
35				35	40					45					
Lys	His	Phe	Lys	Thr	Lys	Pro	Ala	Asp	Asp	Glu	Met	Arg	Phe	Leu	Tyr
	50				55					60					
Gly	His	Tyr	Lys	Arg	Ala	Thr	Val	Gly	Asn	Ile	Lys	Thr	Glu	Arg	Pro
	65				70				75				80		
Gly	Met	Val	Asp	Phe	Lys	Gly	Lys	Ala	Lys	Trp	Asp	Pro	Trp	Asn	Leu
	85						90						95		
Val	Lys	Gly	Ala	Ala	Arg	Glu	Asp	Pro	Met	Lys	Ala	Lys	Ala	Tyr	Val
	100					105					110				
Lys	Lys	Val	Glu	Glu	Leu	Lys	Lys	Phe	Arg	Ile	Arg	Glu	Thr	Gly	
	115					120				125					
Ile	Val	Ala	Ser	His	Ala	Phe	Val	Leu	Asn						
	130				135										

<210> 102
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400>	102														
Met	Leu	Leu	Leu	Phe	Val	Cys	Leu	Phe	Phe	Leu	Lys	Ala	Asp	Phe	Asp
1				5				10				15			
Arg	Ala	Ala	Glu	Asp	Val	Arg	Lys	Leu	Lys	Ala	Arg	Pro	Asp	Asp	Gly
	20					25					30				
Glu	Leu	Lys	Glu	Leu	Tyr	Gly	Leu	Tyr	Lys	Gln	Ala	Ile	Val	Gly	Asp
	35					40				45					
Ile	Asn	Ile	Ala	Cys	Pro	Gly	Met	Leu	Asp	Leu	Lys	Gly	Lys	Ala	Lys
	50					55				60					
Trp	Glu	Ala	Trp	Asn	Leu	Lys	Gly	Leu	Ser	Thr	Glu	Asp	Ala	Thr	
	65				70				75			80			
Ser	Ala	Tyr	Ile	Ser	Lys	Ala	Lys	Glu	Leu	Ile	Glu	Lys	Tyr	Gly	Ile
	85						90					95			

<210> 103
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 103

Met Ser Leu Gln Ala Asp Phe Asp Met Val Thr Glu Asp Val Arg Lys
1 5 10 15

Leu Lys Thr Arg Pro Asp Asp Glu Glu Leu Lys Glu Leu Tyr Gly Leu
20 25 30

Tyr Lys Gln Ala Val Ile Gly Asn Ile Asn Ile Glu Cys Ser Glu Met
35 40 45

Leu Glu Leu Lys Gly Lys Ala Lys Trp Glu Ala Gln Asn Pro Gln Lys
50 55 60

Gly Leu Ser Glu Glu Asp Met Met Arg Ala Phe Ile Ser Lys Ala Glu
65 70 75 80

Glu Leu Ile Glu Lys Tyr Gly Ile
85

<210> 104
<211> 86
<212> PRT
<213> Homo sapiens

<400> 104
Met Ala Leu Gln Ala Glu Phe Asp Lys Ala Ala Glu Asp Val Arg Lys
1 5 10 15

Leu Pro Thr Arg Pro Ala Asp Asn Lys Glu Leu Lys Lys Leu Asp Gly
20 25 30

Leu Tyr Lys Gln Ala Ile Ile Gly Asp Ile Asn Ile Glu Tyr Leu Gly
35 40 45

Met Leu Asp Phe Lys Gly Lys Ala Lys Cys Ala Ala Trp Thr Leu Gln
50 55 60

Lys Arg Leu Ser Lys Glu Asp Ala Thr Ser Val Ser Ile Ser Lys Ala
65 70 75 80

Lys Glu Pro Ile Glu Lys
85

<210> 105
<211> 282
<212> PRT
<213> Homo sapiens

<400> 105
Met Ala Ser Ser Phe Leu Pro Ala Gly Ala Ile Thr Gly Asp Ser Gly
1 5 10 15

Gly Glu Leu Ser Ser Gly Asp Asp Ser Gly Glu Val Glu Phe Pro His
20 25 30

Ser Pro Glu Ile Glu Glu Thr Ser Cys Leu Ala Glu Leu Phe Glu Lys

35	40	45	
Ala Ala Ala His Leu Gln Gly Leu Ile Gln Val Ala Ser Arg Glu Gln			
50	55	60	
Leu Leu Tyr Leu Tyr Ala Arg Tyr Lys Gln Val Lys Val Gly Asn Cys			
65	70	75	80
Asn Thr Pro Lys Pro Ser Phe Phe Asp Phe Glu Gly Lys Gln Lys Trp			
85	90	95	
Glu Ala Trp Lys Ala Leu Gly Asp Ser Ser Pro Ser Gln Ala Met Gln			
100	105	110	
Glu Tyr Ile Ala Val Val Lys Lys Leu Asp Pro Gly Trp Asn Pro Gln			
115	120	125	
Ile Pro Glu Lys Lys Gly Lys Glu Ala Asn Thr Gly Phe Gly Gly Pro			
130	135	140	
Val Ile Ser Ser Leu Tyr His Glu Glu Thr Ile Arg Glu Glu Asp Lys			
145	150	155	160
Asn Ile Phe Asp Tyr Cys Arg Glu Asn Asn Ile Asp His Ile Thr Lys			
165	170	175	
Ala Ile Lys Ser Lys Asn Val Asp Val Asn Val Lys Asp Glu Glu Gly			
180	185	190	
Arg Ala Leu Leu His Trp Ala Cys Asp Arg Gly His Lys Glu Leu Val			
195	200	205	
Thr Val Leu Leu Gln His Arg Ala Asp Ile Asn Cys Gln Asp Asn Glu			
210	215	220	
Gly Gln Thr Ala Leu His Tyr Ala Ser Ala Cys Glu Phe Leu Asp Ile			
225	230	235	240
Val Glu Leu Leu Leu Gln Ser Gly Ala Asp Pro Thr Leu Arg Asp Gln			
245	250	255	
Asp Gly Cys Leu Pro Glu Glu Val Thr Gly Cys Lys Thr Val Ser Leu			
260	265	270	
Val Leu Gln Arg His Thr Thr Gly Lys Ala			
275	280		
<210> 106			
<211> 359			
<212> PRT			
<213> Homo sapiens			
<400> 106			
Met Arg Ala Ser Gln Lys Asp Phe Glu Asn Ser Met Asn Gln Val Lys			
1 5 10 15			

Leu Leu Lys Lys Asp Pro Gly Asn Glu Val Lys Leu Lys Leu Tyr Ala
 20 25 30

Leu Tyr Lys Gln Ala Thr Glu Gly Pro Cys Asn Met Pro Lys Pro Gly
 35 40 45

Val Phe Asp Leu Ile Asn Lys Ala Lys Trp Asp Ala Trp Asn Ala Leu
 50 55 60

Gly Ser Leu Pro Lys Glu Ala Ala Arg Gln Asn Tyr Val Asp Leu Val
 65 70 75 80

Ser Ser Leu Ser Pro Ser Leu Glu Ser Ser Ser Gln Val Glu Pro Gly
 85 90 95

Thr Asp Arg Lys Ser Thr Gly Phe Glu Thr Leu Val Val Thr Ser Glu
 100 105 110

Asp Gly Ile Thr Lys Ile Met Phe Asn Arg Pro Lys Lys Lys Asn Ala
 115 120 125

Ile Asn Thr Glu Met Tyr His Glu Ile Met Arg Ala Leu Lys Ala Ala
 130 135 140

Ser Lys Asp Asp Ser Ile Ile Thr Val Leu Thr Gly Asn Gly Asp Tyr
 145 150 155 160

Tyr Ser Ser Gly Asn Asp Leu Thr Asn Phe Thr Asp Ile Pro Pro Gly
 165 170 175

Gly Val Glu Glu Lys Ala Lys Asn Asn Ala Val Leu Leu Arg Glu Phe
 180 185 190

Val Gly Cys Phe Ile Asp Phe Pro Lys Pro Leu Ile Ala Val Val Asn
 195 200 205

Gly Pro Ala Val Gly Ile Ser Val Thr Leu Leu Gly Leu Phe Asp Ala
 210 215 220

Val Tyr Ala Ser Asp Arg Ala Thr Phe His Thr Pro Phe Ser His Leu
 225 230 235 240

Gly Gln Ser Pro Glu Gly Cys Ser Ser Tyr Thr Phe Pro Lys Ile Met
 245 250 255

Ser Pro Ala Lys Ala Thr Glu Met Leu Ile Phe Gly Lys Lys Leu Thr
 260 265 270

Ala Gly Glu Ala Cys Ala Gln Gly Leu Val Thr Glu Val Phe Pro Asp
 275 280 285

Ser Thr Phe Gln Lys Glu Val Trp Thr Arg Leu Lys Ala Phe Ala Lys
 290 295 300

Leu Pro Pro Asn Ala Leu Arg Ile Ser Lys Glu Val Ile Arg Lys Arg
 305 310 315 320

Glu Arg Glu Lys Leu His Ala Val Asn Ala Glu Glu Cys Asn Val Leu
325 330 335

Gln Gly Arg Trp Leu Ser Asp Glu Cys Thr Asn Ala Val Val Asn Phe
340 345 350

Leu Ser Arg Lys Ser Lys Leu
355

<210> 107
<211> 530
<212> PRT
<213> Homo sapiens

<400> 107
Met Phe Gln Phe His Ala Gly Ser Trp Glu Ser Trp Cys Cys Cys Cys
1 5 10 15

Leu Ile Pro Ala Asp Arg Pro Trp Asp Arg Gly Gln His Trp Gln Leu
20 25 30

Glu Met Ala Asp Thr Arg Ser Val His Glu Thr Arg Phe Glu Ala Ala
35 40 45

Val Lys Val Ile Gln Ser Leu Pro Lys Asn Gly Ser Phe Gln Pro Thr
50 55 60

Asn Glu Met Met Leu Lys Phe Tyr Ser Phe Tyr Lys Gln Ala Thr Glu
65 70 75 80

Gly Pro Cys Lys Leu Ser Arg Pro Gly Phe Trp Asp Pro Ile Gly Arg
85 90 95

Tyr Lys Trp Asp Ala Trp Ser Ser Leu Gly Asp Met Thr Lys Glu Glu
100 105 110

Ala Met Ile Ala Tyr Val Glu Glu Met Lys Lys Ile Ile Glu Thr Met
115 120 125

Pro Met Thr Glu Lys Val Glu Glu Leu Leu Arg Val Ile Gly Pro Phe
130 135 140

Tyr Glu Ile Val Glu Asp Lys Ser Gly Arg Ser Ser Asp Ile Thr
145 150 155 160

Ser Val Arg Leu Glu Lys Ile Ser Lys Cys Leu Glu Asp Leu Gly Asn
165 170 175

Val Leu Thr Ser Thr Pro Asn Ala Lys Thr Val Asn Gly Lys Ala Glu
180 185 190

Ser Ser Asp Ser Gly Ala Glu Ser Glu Glu Glu Ala Gln Glu Glu
195 200 205

Val Lys Gly Ala Glu His Ser Asp Asn Asp Lys Lys Met Met Lys Lys
210 215 220

Ser Ala Asp His Lys Asn Leu Glu Val Ile Val Thr Asn Gly Tyr Asp
 225 230 235 240
 Lys Asp Gly Phe Val Gln Asp Ile Gln Asn Asp Ile His Ala Ser Ser
 245 250 255
 Ser Leu Asn Gly Arg Ser Thr Glu Glu Val Lys Pro Ile Asp Glu Asn
 260 265 270
 Leu Gly Gln Thr Gly Lys Ser Ala Val Cys Ile His Gln Gly Ile Asn
 275 280 285
 Asp Asp His Val Glu Asp Val Thr Gly Ile Gln His Leu Thr Ser Asp
 290 295 300
 Ser Asp Ser Glu Val Tyr Cys Asp Ser Met Glu Gln Phe Gly Gln Glu
 305 310 315 320
 Glu Ser Leu Asp Ser Phe Thr Ser Asn Asn Gly Pro Phe Gln Tyr Tyr
 325 330 335
 Leu Gly Gly His Ser Ser Gln Pro Met Glu Asn Ser Gly Phe Arg Glu
 340 345 350
 Asp Ile Gln Val Pro Pro Gly Asn Gly Asn Ile Gly Asn Met Gln Val
 355 360 365
 Val Ala Val Glu Gly Lys Gly Glu Val Lys His Gly Gly Glu Asp Gly
 370 375 380
 Arg Asn Asn Ser Gly Ala Pro His Arg Glu Lys Arg Gly Gly Glu Thr
 385 390 395 400
 Asp Glu Phe Ser Asn Val Arg Arg Gly Arg Gly His Arg Met Gln His
 405 410 415
 Leu Ser Glu Gly Thr Lys Gly Arg Gln Val Gly Ser Gly Gly Asp Gly
 420 425 430
 Glu Arg Trp Gly Ser Asp Arg Gly Ser Arg Gly Ser Leu Asn Glu Gln
 435 440 445
 Ile Ala Leu Val Leu Met Arg Leu Gln Glu Asp Met Gln Asn Val Leu
 450 455 460
 Gln Arg Leu Gln Lys Leu Glu Thr Leu Thr Ala Ala Lys Ser Ser Thr
 465 470 475 480
 Ser Thr Leu Gln Thr Ala Pro Gln Pro Thr Ser Ser Gln Arg Pro Ser
 485 490 495
 Trp Trp Pro Phe Glu Met Ser Pro Gly Val Leu Thr Phe Ala Ile Ile
 500 505 510
 Trp Pro Phe Ile Ala Gln Trp Leu Val Tyr Leu Tyr Tyr Gln Arg Arg
 515 520 525

Arg Arg
530

<210> 108
<211> 20
<212> PRT
<213> Homo sapiens

<400> 108
Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu Asp
1 5 10 15

Phe Thr Gly Lys
20

<210> 109
<211> 20
<212> PRT
<213> Homo sapiens

<400> 109
Arg Ala Thr Val Gly Asn Ile Lys Thr Glu Arg Pro Gly Met Val Asp
1 5 10 15

Phe Lys Gly Lys
20

<210> 110
<211> 20
<212> PRT
<213> Homo sapiens

<400> 110
Gln Ala Val Ile Gly Asn Ile Asn Ile Glu Cys Ser Glu Met Leu Glu
1 5 10 15

Leu Lys Gly Lys
20

<210> 111
<211> 20
<212> PRT
<213> Homo sapiens

<400> 111
Gln Ala Ile Ile Gly Asp Ile Asn Ile Glu Tyr Leu Gly Met Leu Asp
1 5 10 15

Phe Lys Gly Lys
20

<210> 112
<211> 20
<212> PRT
<213> Homo sapiens

<400> 112
Gln Ala Ile Val Gly Asp Ile Asn Ile Ala Cys Pro Gly Met Leu Asp
1 5 10 15

Leu Lys Gly Lys
20

<210> 113
<211> 20
<212> PRT
<213> Homo sapiens

<400> 113
Gln Ala Thr Val His Asp Leu Asn Thr Glu Trp Pro Arg Met Leu Asp
1 5 10 15

Leu Lys Gly Lys
20

<210> 114
<211> 20
<212> PRT
<213> Homo sapiens

<400> 114
Gln Val Lys Val Gly Asn Cys Asn Thr Pro Lys Pro Ser Phe Phe Asp
1 5 10 15

Phe Glu Gly Lys
20

<210> 115
<211> 20
<212> PRT
<213> Homo sapiens

<400> 115
Gln Ala Thr Glu Gly Pro Cys Asn Met Pro Lys Pro Gly Val Phe Asp
1 5 10 15

Leu Ile Asn Lys
20

<210> 116
<211> 20
<212> PRT
<213> Homo sapiens

<400> 116
Gln Ala Thr Glu Gly Pro Cys Lys Leu Ser Arg Pro Gly Phe Trp Asp
1 5 10 15

Pro Ile Gly Arg
20

<210> 117
<211> 20
<212> PRT
<213> Homo sapiens

<400> 117
Gln Ala Thr Gln Gly Asp Cys Asp Ile Pro Gly Pro Pro Ala Ser Asp
1 5 10 15

Val Arg Ala Arg
20

<210> 118
<211> 18
<212> PRT
<213> Homo sapiens

<400> 118
Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu Asp
1 5 10 15

Phe Thr

<210> 119
<211> 18
<212> PRT
<213> Homo sapiens

<400> 119
Gln Ala Thr Val Gly Asp Val Asn Thr Asp Arg Pro Gly Leu Leu Asp
1 5 10 15

Leu Lys

<210> 120
<211> 18
<212> PRT
<213> Homo sapiens

<400> 120
Arg Ala Thr Val Gly Asn Ile Lys Thr Glu Arg Pro Gly Met Val Asp
1 5 10 15

Phe Lys

<210> 121
<211> 32
<212> PRT
<213> Bos taurus

<400> 121
Ile Tyr Ser His Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu
1 5 10 15

Arg Pro Gly Met Leu Asp Phe Lys Gly Lys Ala Lys Trp Asp Ala Trp
20 25 30

<210> 122
<211> 32
<212> PRT
<213> Homo sapiens

<400> 122
Ile Tyr Gly His Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu
1 5 10 15

Arg Pro Gly Met Leu Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp
20 25 30

<210> 123
<211> 32
<212> PRT
<213> Drosophila melanogaster

<400> 123
Leu Tyr Ser Leu Tyr Lys Gln Ala Thr Val Gly Asp Cys Asn Thr Asp
1 5 10 15

Lys Pro Gly Phe Leu Asp Phe Lys Gly Lys Ala Lys Trp Glu Ala Trp
20 25 30

<210> 124
<211> 32
<212> PRT
<213> Gallus gallus

<400> 124

Val Tyr Ser His Tyr Lys Gln Ala Thr Val Gly Asp Val Asn Thr Asp
1 5 10 15

Arg Pro Gly Met Leu Asp Phe Lys Gly Lys Ala Lys Trp Asp Ala Trp
20 25 30

<210> 125
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
construct; chemically synthesized

<400> 125
Ile Tyr Ser His Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu
1 5 10 15

Arg Pro Gly Met Leu Asp Phe Lys Gly Lys Ala Lys Trp Asp Ala Trp
20 25 30

<210> 126
<211> 32
<212> PRT
<213> Homo sapiens

<400> 126
Ile Tyr Gly His Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu
1 5 10 15

Arg Pro Gly Met Leu Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp
20 25 30

<210> 127
<211> 32
<212> PRT
<213> turtle

<400> 127
Ile Tyr Ser His Phe Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu
1 5 10 15

Arg Pro Gly Phe Leu Asp Phe Lys Gly Lys Ala Lys Trp Asp Ala Trp
20 25 30

<210> 128
<211> 32
<212> PRT
<213> mallard

<400> 128
Val Tyr Ser His Tyr Lys Gln Ala Thr Val Gly Asp Val Asn Thr Asp
1 5 10 15

Arg Pro Gly Met Leu Asp Phe Lys Gly Lys Ala Lys Trp Asp Ala Trp
20 25 30

<210> 129
<211> 32
<212> PRT
<213> Mus musculus

<400> 129
Ile Tyr Ser His Phe Lys Gln Ala Thr Val Gly Asp Val Asn Thr Asp
1 5 10 15

Arg Pro Gly Leu Leu Asp Leu Lys Gly Lys Ala Lys Trp Asp Ser Trp
20 25 30

<210> 130
<211> 32
<212> PRT
<213> Sus scrofa

<400> 130
Ile Tyr Ser His Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu
1 5 10 15

Arg Pro Gly Ile Leu Asp Leu Lys Gly Lys Ala Lys Trp Asp Ala Trp
20 25 30

<210> 131
<211> 32
<212> PRT
<213> Bos taurus

<400> 131

Ile Tyr Ser His Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu
1 5 10 15

Arg Pro Gly Met Leu Asp Phe Lys Gly Lys Ala Lys Trp Asp Ala Trp
20 25 30

<210> 132

<211> 32

<212> PRT

<213> Homo sapiens

<400> 132

Ile Tyr Gly His Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu
1 5 10 15

Arg Pro Gly Met Leu Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp
20 25 30

<210> 133

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
construct; chemically synthesized

<400> 133

Ile Tyr Ser His Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu
1 5 10 15

Arg Pro Gly Met Leu Asp Phe Lys Gly Lys Ala Lys Trp Asp Ala Trp
20 25 30

<210> 134

<211> 32

<212> PRT

<213> Homo sapiens

<400> 134

Ile Tyr Gly His Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu
1 5 10 15

Arg Pro Gly Met Leu Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp
20 25 30

<210> 135
<211> 32
<212> PRT
<213> Anas platyrhynchos

<400> 135
Leu Tyr Gly Phe Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Ile Glu
1 5 10 15

Cys Pro Gly Met Leu Asp Leu Lys Gly Lys Ala Lys Trp Glu Ala Trp
20 25 30

<210> 136
<211> 32
<212> PRT
<213> turtle

<400> 136
Ile Tyr Ser His Phe Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu
1 5 10 15

Arg Pro Gly Phe Leu Asp Phe Lys Gly Lys Ala Lys Trp Asp Ala Trp
20 25 30

<210> 137
<211> 20
<212> PRT
<213> Homo sapiens

<400> 137
Gln Ser Thr Val Gly Asp Ile Asn Ile Glu Cys Pro Gly Met Leu Asp
1 5 10 15

Leu Lys Gly Lys
20

<210> 138
<211> 20
<212> PRT
<213> Homo sapiens

<400> 138
Gln Ala Ser Val Gly Asp Asn Asp Thr Ala Lys Pro Gly Leu Leu Asp
1 5 10 15

Leu Lys Gly Lys
20

<210> 139
<211> 20
<212> PRT
<213> Homo sapiens

<400> 139
Gln Ala Ser Val Gly Asp Asn Asp Thr Ala Lys Pro Gly Leu Leu Asp
1 5 10 15

Leu Lys Gly Lys
20

<210> 140
<211> 20
<212> PRT
<213> Homo sapiens

<400> 140
Gln Ala Thr Val Gly Asp Asn Asn Thr Glu Lys Pro Gly Leu Leu Asp
1 5 10 15

Leu Lys Gly Lys
20

<210> 141
<211> 20
<212> PRT
<213> Bos taurus

<400> 141
Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu Asp
1 5 10 15

Phe Lys Gly Lys
20

<210> 142
<211> 20
<212> PRT
<213> Mus musculus

<400> 142
Gln Ala Thr Val Gly Asp Val Asn Thr Asp Arg Pro Gly Leu Leu Asp
1 5 10 15

Leu Lys Gly Lys

<210> 143
<211> 20
<212> PRT
<213> Rattus norvegicus

<400> 143
Gln Ala Thr Val Gly Asp Val Asn Thr Asp Arg Pro Gly Leu Leu Asp
1 5 10 15

Leu Lys Gly Lys
20

<210> 144
<211> 20
<212> PRT
<213> Sus scrofa

<400> 144
Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Ile Leu Asp
1 5 10 15

Leu Lys Gly Lys
20

<210> 145
<211> 20
<212> PRT
<213> Bos taurus

<400> 145
Gln Ala Thr Glu Gly Pro Cys Lys Leu Ser Lys Pro Gly Phe Trp Asp
1 5 10 15

Pro Val Gly Arg
20

<210> 146
<211> 20
<212> PRT
<213> Cyprinus carpio

<400> 146
Gln Ala Thr Gln Gly Pro Cys Asn Thr Pro Lys Pro Ser Met Leu Asp
1 5 10 15

Phe Val Asn Lys
20

<210> 147
<211> 20

<212> PRT
<213> Mus musculus

<400> 147
Gln Ala Thr Glu Gly Thr Cys Asn Met Pro Lys Pro Gly Met Leu Asp
1 5 10 15

Phe Val Asn Lys
20

<210> 148
<211> 20
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (2)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (3)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (6)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (7)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (10)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (11)
<223> wherein Xaa is Arg or Lys

<220>
<221> VARIANT
<222> (13)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (14)
<223> wherein Xaa is any amino acid

<220>

<221> VARIANT
<222> (15)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (18)
<223> wherein Xaa is any amino acid

<400> 148
Gln Xaa Xaa Val Gly Xaa Xaa Asn Thr Xaa Xaa Pro Xaa Xaa Xaa Asp
1 5 10 15

Phe Xaa Gly Lys
20

<210> 149
<211> 89
<212> PRT
<213> Homo sapiens

<400> 149
Thr Ala Ser Thr Thr Pro Cys Ala Lys Trp Ser Ser Ser Cys Ala Ala
1 5 10 15

Leu Lys Gln Leu Lys Gly Pro Val Ser Asp Gln Glu Lys Leu Leu Val
20 25 30

Tyr Gly Leu Tyr Lys Gln Ala Thr Gln Gly Asp Cys Asp Ile Pro Gly
35 40 45

Pro Pro Ala Ser Asp Val Arg Ala Arg Ala Lys Trp Glu Ala Trp Ser
50 55 60

Ala Asn Lys Gly Ala Ser Lys Met Asp Ala Met Arg Gly Tyr Ala Ala
65 70 75 80

Lys Val Glu Glu Leu Thr Lys Lys Glu
85

<210> 150
<211> 228
<212> PRT
<213> Homo sapiens

<400> 150
Met Gly Asp Ala Gly Ala Thr Ala Ala Leu Arg Pro Ala His Asn
1 5 10 15

Leu Arg Pro Ala Pro Pro Thr Ala Ser Ala Ala His Ala Gln Ser Ser
20 25 30

Arg Thr Ser Ala Pro Ser Ala Gln Arg Arg Leu Pro Ala Glu Pro Ser
35 40 45

His	Gln	Pro	Ser	Ala	Pro	Gly	Thr	Ala	Ser	Thr	Thr	Pro	Cys	Ala	Lys
50					55							60			
Trp	Ser	Ser	Ser	Cys	Ala	Ala	Leu	Lys	Gln	Leu	Lys	Gly	Pro	Val	Ser
65					70				75				80		
Asp	Gln	Glu	Lys	Leu	Leu	Val	Tyr	Gly	Leu	Tyr	Lys	Gln	Ala	Thr	Gln
					85				90				95		
Gly	Asp	Cys	Asp	Ile	Pro	Gly	Pro	Pro	Ala	Ser	Asp	Val	Arg	Ala	Arg
				100				105				110			
Ala	Lys	Trp	Glu	Ala	Trp	Ser	Ala	Asn	Lys	Gly	Ala	Ser	Lys	Met	Asp
				115			120				125				
Ala	Met	Arg	Gly	Tyr	Ala	Ala	Lys	Val	Glu	Glu	Leu	Thr	Lys	Lys	Glu
				130			135				140				
Val	Gly	Gly	Val	Glu	Arg	Glu	Gln	Arg	Gly	Val	Gln	Asp	Gly	Arg	His
				145			150			155			160		
Glu	Gly	Leu	Arg	Gly	Gln	Ser	Gly	Gly	Ala	Asp	Glu	Glu	Gly	Arg	Ala
				165			170				175				
Ser	Lys	Met	Asp	Ala	Met	Arg	Gly	Tyr	Ala	Ala	Lys	Val	Glu	Glu	Leu
				180			185				190				
Thr	Lys	Lys	Glu	Val	Gly	Gly	Val	Glu	Arg	Glu	Gln	Arg	Gly	Val	Gln
				195			200				205				
Asp	Gly	Arg	His	Glu	Gly	Leu	Arg	Gly	Gln	Ser	Glu	Glu	Met	Arg	Lys
				210			215			220					
Lys	Glu	Ala	Gly												
				225											

<210> 151
<211> 191
<212> PRT
<213> Homo sapiens

<400> 151															
Met	Gly	Asp	Ala	Gly	Ala	Thr	Ala	Ala	Leu	Arg	Pro	Ala	His	Asn	
1				5				10				15			
Leu	Arg	Pro	Ala	Pro	Pro	Thr	Ala	Ser	Ala	Ala	His	Ala	Ser	Pro	His
					20			25				30			
Glu	Arg	Ala	Arg	Gln	Ala	Ser	Arg	Ala	Phe	Arg	Gln	Ser	Pro	Pro	Thr
				35			40				45				
Ser	Pro	Gln	Leu	Leu	Ala	Pro	Gly	Thr	Ala	Ser	Thr	Thr	Pro	Cys	Ala
				50			55				60				
Lys	Trp	Ser	Ser	Ser	Cys	Ala	Ala	Leu	Lys	Gln	Leu	Lys	Gly	Pro	Val
				65			70			75			80		

Ser Asp Gln Glu Lys Leu Leu Val Tyr Gly Leu Tyr Lys Gln Ala Thr
85 90 95

Gln Gly Asp Cys Asp Ile Pro Gly Pro Pro Ala Ser Asp Val Arg Ala
100 105 110

Arg Ala Lys Trp Glu Ala Trp Ser Ala Lys Lys Gly Ala Ser Lys Met
115 120 125

Asp Ala Met Arg Gly Tyr Ala Ala Lys Val Glu Glu Leu Thr Lys Lys
130 135 140

Glu Val Gly Gly Val Glu Arg Glu Gln Arg Gly Val Gln Asp Gly Arg
145 150 155 160

His Glu Gly Leu Arg Gly Gln Ser Gly Gly Ala Asp Glu Glu Gly Ser
165 170 175

Gly Gly Arg Gly Ala Arg Thr Lys Gly Arg Pro Arg Trp Thr Pro
180 185 190